Model number
L32A404

HITACHI
Inspire the Next

Owners Guide

Thank you for purchasing this Hitachi product. Please read these instructions carefully.
For additional assistance please call 800.HITACHI (800.448.2244) or visit our website at www.hitachi.us/tv.
Keep this owners guide for future reference.

Record the model name and serial number of your LCD Television for future reference.
This information is located on the back and right side of the television.

MODEL NAME. _____ SERIAL NO. _____

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ENERGY STAR

CONEQ™

DOLBY DIGITAL

HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE

HDTV HIGH DEFINITION TELEVISION

Revision 073010

Important Safety Instructions

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI LCD TELEVISION

Our reputation has been built on the quality, performance, and ease of service of Hitachi LCD televisions.

Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your Hitachi LCD television.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of a sufficient magnitude to constitute a risk of electric shock to a person.

The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

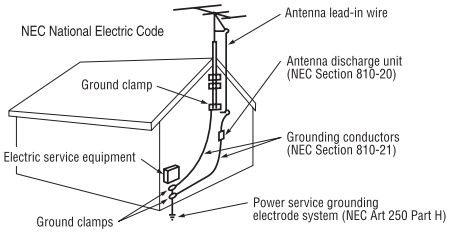
READ BEFORE OPERATING EQUIPMENT

Follow all warnings and instructions marked on this LCD television.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use the attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Televisions are designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

NOTE *To the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-44 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.*



Power source

This LCD television is designed to operate on 120 volts 60 Hz, AC current. Insert the power cord into a 120 volts 60 Hz outlet. The mains plug is used as the disconnect device and shall remain readily operable.
To prevent electric shock, do not use the LCD television's (polarized) plug with an extension cord, receptacle, or other outlet unless the blades and ground terminal can be fully inserted to prevent blade exposure.
Never connect the LCD television to 50 Hz, direct current, or anything other than the specified voltage.
This television's factory default settings as shipped meet ENERGY STAR® requirements.
Please see the Energy Options section of this owners guide for more energy saving tips.

CAUTION Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by Hitachi could void the user's warranty.

Important Safety Instructions

WARNING

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.
- This apparatus shall be connected to a mains socket outlet with a protective earthing connection.

Public viewing of copyrighted material

Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.
This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized, and is intended for home and other limited payper-view uses only unless otherwise authorized. Reverse engineering or disassembly is prohibited.

Lead/Mercury Notice

Hg

This product contains lead and one or more non-replaceable mercury backlights. Do not put in trash. Recycle or dispose of according to applicable laws. For product recycling and disposal information, contact your local government agency or visit www.eiae.org (in USA) or www.epsc.ca (in Canada). **FOR MORE INFORMATION, CALL 800.HITACHI.**

FEDERAL COMMUNICATIONS COMMISSION NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America, Ltd. may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.
Any cables or power code supplied with the system must be replaced with identical parts in order to assure compliance with FCC rules. You may order those replacement parts from Hitachi.

This LCD Television receiver will display television closed captioning, (CC *or* ▭ *), in accordance with paragraph 15.119 and 15.122 of the FCC rules.*

Declaration of Conformity

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions :
(1)This device may not cause harmful interference and (2)This device must accept any interference received, including interference that may cause undesired operation.
For questions regarding this declaration, contact:

Hitachi America, Ltd.
900 Hitachi Way
Chula Vista, CA 91914-3556
Tel. 800.448.2244(800.HITACHI)
ATTN: Customer Relations

CHILD SAFETY:

It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase!
As you enjoy your new product, please keep these safety tips on mind:

HITACHI CARES!

- The consumer electronics industry is commited to making home entertainment enjoyable and safe.
- Please note the American Academy of Pediatrics discourages television viewing for children younger than two years of age.
- The home theater entertainment experience is a growing trend and larger flat displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat Panel displays that are inappropriately situated on dresser, bookcases, shelves, desks, speakers, chest or carts may fall over and cause injury.

TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

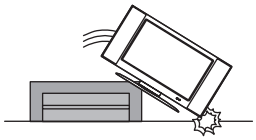
- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction.
  If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.

CEA
Consumer Electronics Association
www.CE.org/safety

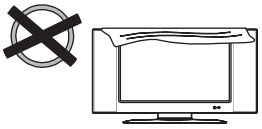
PRECAUTIONS AND REMINDERS

Do not place the unit on uneven surfaces, this may drop or damage the unit, it may also cause personal injury.

Unplug immediately if any foreign materials falls into the TV or if the TV fell down.

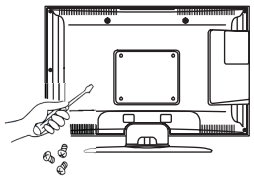


Do not cover or block any vents and openings of the TV. Inadequate ventilation may shorten the life of the display unit and cause overheating.

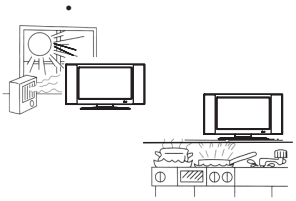


Unplug immediately if there is a malfunction on the TV like no picture, no video/audio or if there is smoke and bad odor coming from the TV.

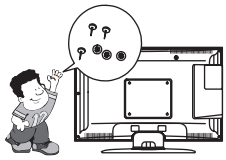
Do not open the TV cabinet.



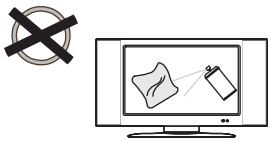
Avoid direct sunlight, dusty, high humidity and smokey locations.



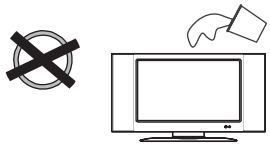
Do not throw any objects inside the TV like metals, coins or any other flammable materials.



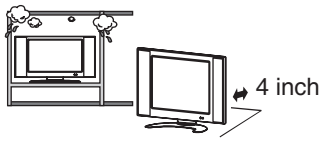
Remember to unplug the power cord from the AC outlet before cleaning. Do not use liquid cleaners or aerosol cleaners to clean the display.



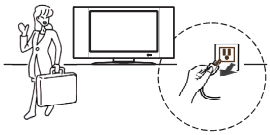
Do not place the TV near water, such as a bathtub, shower rooms, kitchen sink, laundry tub or swimming pool. Avoid liquid containers on top of the unit.



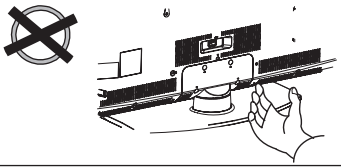
Do not place the TV in confined spaces or inside a box when the TV is operating.



Make sure to unplug the TV when not in use for a long period of time (days).



Do not pick up or handle the TV from where the TV connects to the stand. Injury may occur if the TV is picked up or handled from this area.



Notice for remote control

Avoid dropping the unit.

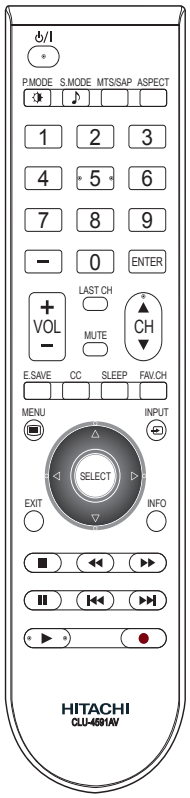
Avoid liquids on it.

Avoid aerosol cleaners.

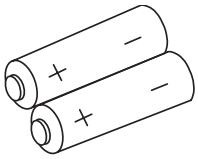
Accessories

Check to make sure you have the following accessories before disposing of the packing material.

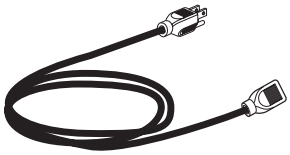
① Remote Control Unit
CLU-4591AV
(Part No. HL02631)



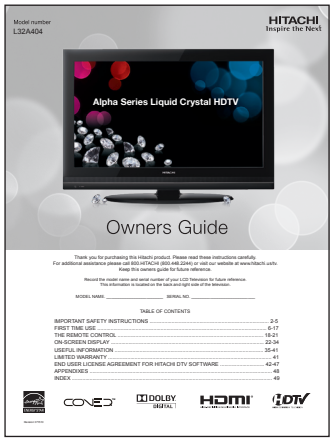
② "AA" Size
Batteries (2)



③ Power Cord



④ Owners Guide

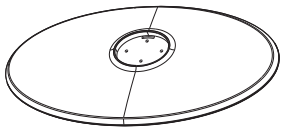


⑤ Easy Graphic Guide

⑥ Stand Screws (4)

(T4x12: Part No. 0Q1G 940 12 47 CR3)

⑦ Stand Base

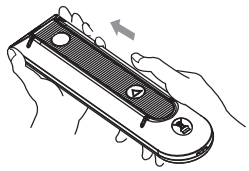


(Part No. 705TQA34J70)

For optional accessories, please access our web site at: ***www.hitachi.us/tv***

CAUTION

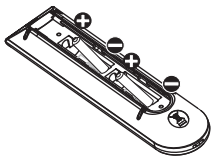
- *Ceiling mounting is not recommended. Mounting the panel on the ceiling does not provide adequate ventilation for the electronics or proper support for the front panel. This LCD television product is designed for a maximum tilting angle of 45 degrees from vertical.*
- *Please see page 8 for important information related to wall mounting.*

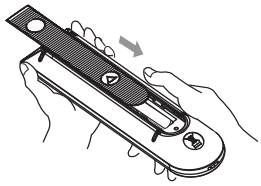


REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

The remote control operates on **2 "AA"** batteries.

1. Open the battery cover of the remote control by pushing and pulling it in the direction of the arrow.
2. Insert two new "AA" size batteries for the remote control. When replacing old batteries, push them towards the springs and lift them out.
3. Match the batteries to the (+) and (-) marks in the battery compartment.
4. Insert the bottom of the battery, the (-) side, into the battery compartment first, push towards the springs and insert the top of the battery, the (+) side, into place. Do not force the battery into the battery compartment.
5. Close the battery cover making sure the tabs rest in the corresponding holes and push down the cover until it clicks shut.





CAUTION

- *Do not insert batteries with '+' and '-' polarities reversed as this may cause the batteries to swell or rupture resulting in leakage.*
- *Never mix used and new batteries in the device.*
- *Replace all the batteries in the device at the same time.*
- *Remove the batteries if the remote control is not going to be used for an extended period of time.*
- *The batteries (batteries installed) shall not be exposed to excessive heat such as sunshine, fire, etc.*

How To Install Your New Hitachi LCD Television

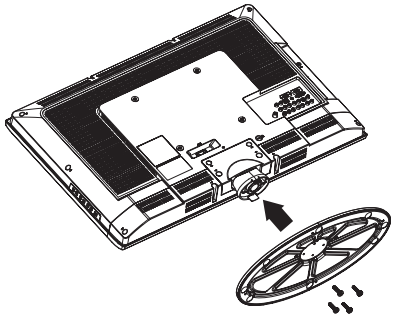
Take the following precautions to prevent the LCD Television from tipping over and possibly causing injury. It is important to mount the unit on a stable and flat surface.

ASSEMBLY OF THE BASE

IMPORTANT:

The base of the LCD TV must be assembled prior to use.

1. Place the TV unit face down on a soft and flat surface covered by a blanket, foam, cloth, etc. to prevent any damage or scratches to the LCD TV.
2. Carefully align and insert the Base to the TV stand post.
3. Insert the screws included with the accessories to the bottom of the base and tighten the base to the stand.

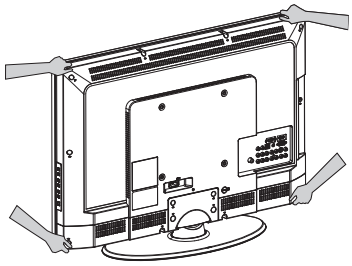


Caution when moving the main unit

As this product is heavy, whenever it is moved, at least two people are required to transport it safely. Whenever the unit is moved, it should be lifted forward using the top and bottom on both sides of the Television for stability.

When moving the Television, lift from the corners, then support the top frame as shown below.

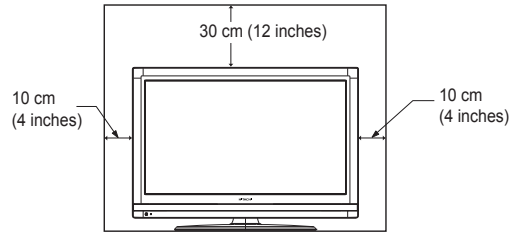
Please use caution when handling the left and right bottom corners of the TV, as these areas protrude slightly from the TV's frame. Handle this area with care to avoid damaging the unit and the possibility of personal injury.



Location

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. If so, drapes or screens can be used to reduce the reflection.

Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set. In order to prevent an internal temperature increase, maintain a space of 10 cm (4 inches) from the sides/back of the Television, and 30 cm (12 inches) from the top of the television to the ceiling. To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.



NOTES

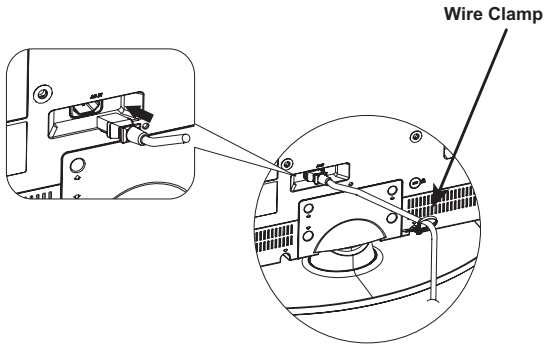
- *Do not block the ventilation holes of the LCD Television. Blocking the ventilation holes might cause overheating and damage.*
- *In case of an abnormal symptom, unplug the power cord and contact 800.HITACHI.*
- *If you purchased a wall mount bracket, it is recommended that you ask for professional installation.*
- *Install the unit at a proper area where it does not expose anyone to any danger of hitting themselves (For example: their hands, head or face, etc.) against the edge of the unit that could cause personal injury.*

Power Cord Installation

The power cord provided with your new LCD Television needs to be installed correctly to avoid its disconnection when rotating the TV on its Table Top Stand.

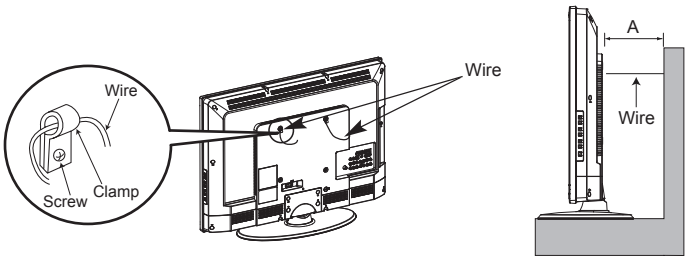
Located on the back of the TV there is one plastic clamp to hold the Power cord. Please follow the instructions below.

1. Pass the power cord through the wire clamp and connect it to the TV.
2. Close the clamp to fix the power cord to the TV.
3. All the cables connected to the TV will be held by this clamp.



Securing to a Wall

1. Use a metallic wire (two locations) to fasten the set to the clamping screw on the rear of the LCD TV as shown below.
2. Keep the LCD television 4 inches away from the wall, except when mounted using the wall mount bracket, and secure to the wall as shown below:



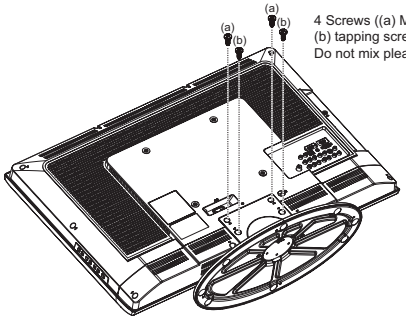
	A
32"	4 in. 10 cm.

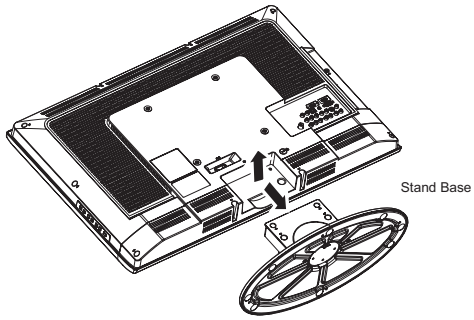
How To Install Your New Hitachi LCD Television

WALL MOUNTING SETUP

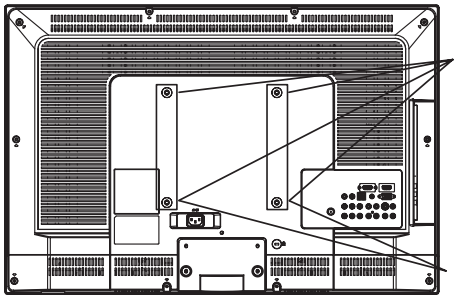
STEP (1) : REMOVE THE STAND BASE FROM THE LCD TELEVISION

In order to remove the stand from the TV safely, please put the TV set on a soft and flat surface (blanket, foam, cloth, etc.) to prevent any damage; then remove the screws as shown below to separate the Table Top Stand from the TV. Now the Stand can be separated from the TV. Useful dimensions for the WALL MOUNT assembly are illustrated on page 39.





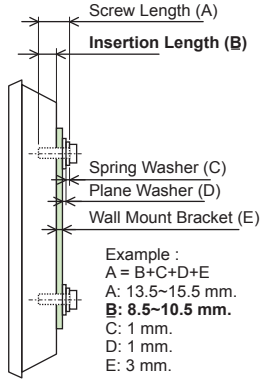
STEP (2) : INSTALL THE WALL MOUNT BRACKETS ON THE LCD TELEVISION USING 4 SCREWS.



Screw mounting holes (4 locations) for use with a wall mount bracket.
DO NOT reuse the original screws that were in these screw mounting holes or the screws removed in STEP (1) above, as such screws are not long enough to properly secure the TV to the wall bracket.
Please refer to example at right and caution below to determine proper screw length.

Wall Mount Brackets

- For Wall Mount assembly, please refer to the Installation Manual of the Wall Mount Unit.

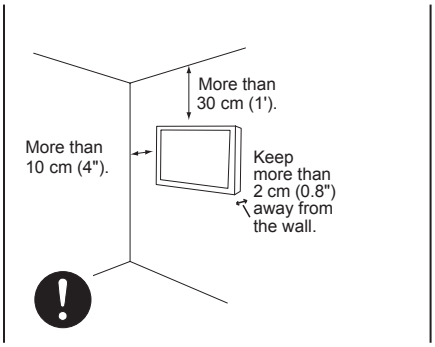


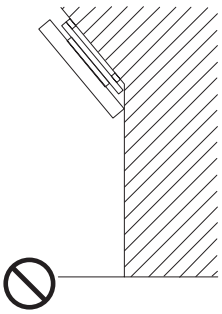
- The screw type :Thread ISO M4 (Metric type, do not use Standard type).

CAUTION

Insertion length (**B**) of the screws must be within 8.5~10.5 mm. If the length is less than 8.5 mm, the TV's weight cannot be maintained. If the length is more than 10.5 mm, a space is created between the Wall Mount Bracket and the LCD Television. This insertion length is **very important**.

STEP (3) : TIPS TO CONSIDER FOR THE LOCATION OF THE LCD TELEVISION.





CAUTION

- Do not block the ventilation holes. In addition please keep a certain distance around the TV and make sure not to obstruct ventilation. Blocking the ventilation holes may cause fire or defect.
- If you purchased a Wall Mount bracket, it is recommended that you ask for a professional installation.
- This LCD unit features an advanced ventilation system configured for vertical installation. A knowledgeable and experienced professional technician can perform other mounting or installation orientations (e.g., horizontal, tilted) provided that you specifically inform the technician of the unit's specialized ventilation needs. Call 800.HITACHI for additional info and guidance.

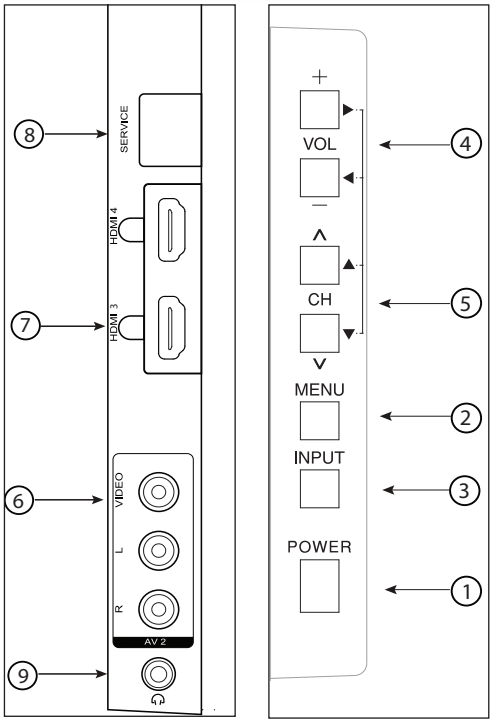
CAUTION

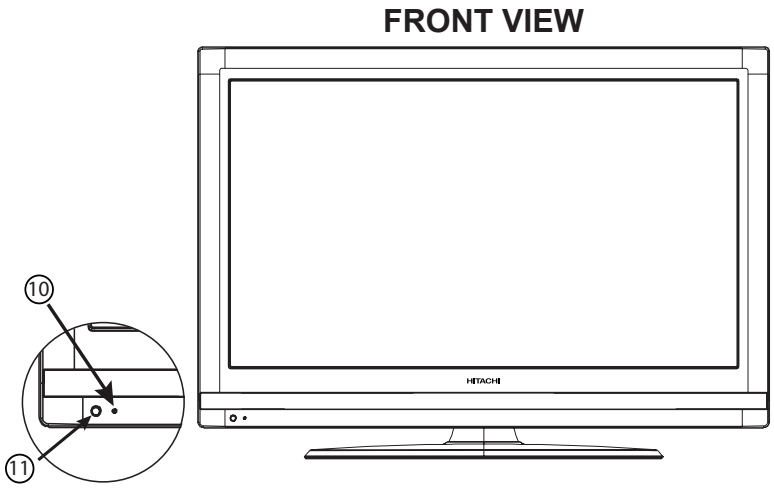
Although this LCD Display Panel can be installed using a variety of third party wall mounting brackets/devices, such third party brackets/devices have not been tested or approved by Hitachi for use or compatibility with this LCD Display Panel. Accordingly, Hitachi accepts no responsibility or liability for any injuries or property damage resulting from the use of such third party brackets/devices. Hitachi strongly advises that any installation of this LCD Display Panel using wall mounting brackets/devices be performed only by a qualified and experienced television installation technician who has completed a thorough evaluation of:

a) the weight-bearing strength and stability of the intended wall mount surface; and

b) the weight-bearing strength and compatibility of the intended wall mount brackets/device.

Side Panel Jacks & Controls





① **POWER Button**
This button is for turning ON the LCD TV, in order to turn the TV On, the standby indicator must be lit red. If the indicator is off, plug the power cord into the AC outlet.

② **MENU Button**
This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote control. This button also serves as the Return button when in the MENU system.

③ **INPUT Button**
Press this button to access the INPUT menu.

④ **VOLUME (+/-) Level**
Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the CURSOR left (◄) and right (►) buttons when in the Menu system.

⑤ **CHANNEL Selector**
Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the CURSOR down (▼) and up (▲) buttons when in the MENU system.

⑥ **COMPOSITE AV2 Jacks**
AV2 input provide composite Video jack for connecting device with this capability, such as a DVD player, Game Console or Camcorders.

⑦ **HDMI 3 & HDMI 4**
Use these side HDMI inputs for AV device such as set top boxes or DVD players equipped with an HDMI output connection (see page 14 for reference).

⑧ **USB SERVICE Slot**
This USB slot is for future software upgrades.

⑨ **HEADPHONE Jack**
Use this jack to connect headphones.

⑩ **POWER LIGHT Indicator**
To turn the TV ON, press the POWER button (①). A blue indicator lamp located on the lower left corner of the front bezel illuminates to indicate the TV power is ON.

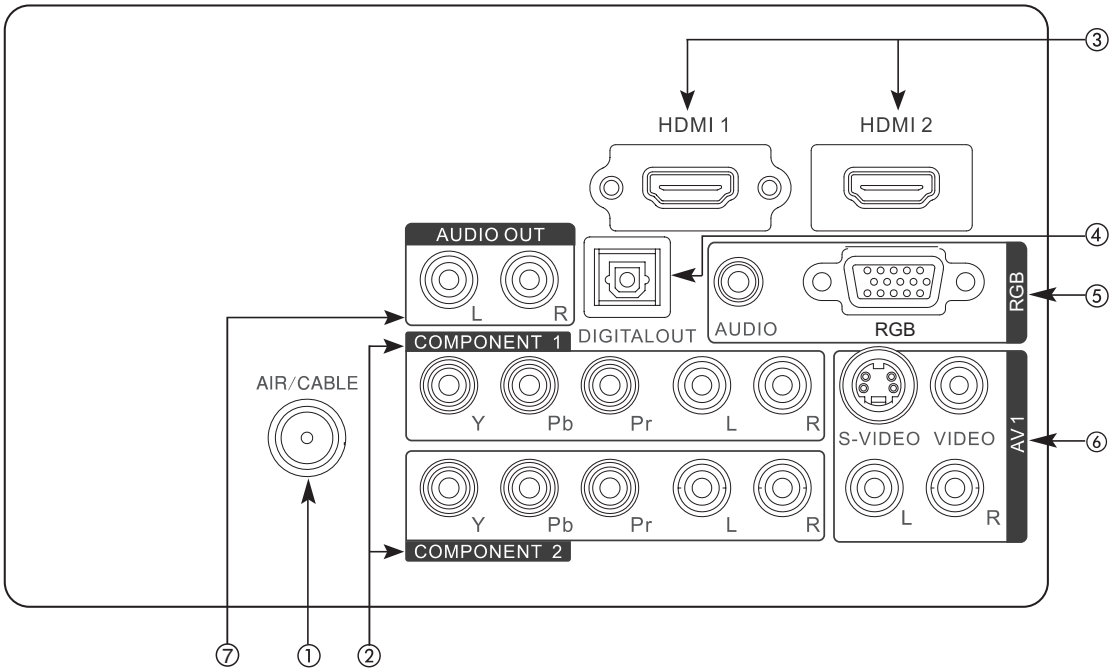
Indicating Lamp	Power Status	Operating
Lights Red	OFF (Stand-by)	When the LCD TV is plugged to the AC outlet.
Lights Blue	ON	TV Power is ON; picture is shown.
Quickly Blinking Red	ON	The TV is powering OFF. It will soon be in the Off (Stand-by) state.

⑪ **REMOTE CONTROL Sensor**
Point your remote control at this area when selecting channels, adjusting volume, etc.

NOTES

- *Your HITACHI LCD TV will not show any picture if there is no video input when AV1, AV2, Component1 or 2, or HDMI 1, 2, 3 or 4 is selected. Instead, a message will indicate "No Signal", and the Power Light will remain Blue until the TV is turned off or in Stand-by mode (lights red) when not in use.*
- *The remote control can turn the TV ON/OFF as well as control various devices and any compatible HDMI CEC devices.*
- *Please do not put anything around the remote control sensor.*

Rear Panel Jacks



① **AIR/CABLE Terminal**
To switch between Cable and Air, go to the Channels Menu option to change the signal source CABLE or AIR (see page 33).

② **COMPONENT: Y-P_bP_r and AUDIO Inputs**
Component 1 and 2 provide Y-P_bP_r and Audio jacks for connecting device with this capability, such as a DVD player or set top box.

NOTES

- *Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P_b input and the components R-Y output to the TV's P_r input.*
- *Your component outputs may be labeled Y-C_bC_r. In this case, connect the component C_b output to the TV's P_b input and the component C_r output to the TV's P_r input.*
- *It may be necessary to adjust Tint to obtain optimum picture quality when using the Y-P_bP_r inputs (see page 24).*

③ **HDMI 1/DVI & 2 (High Definition Multimedia Interface)**
HDMI input for your AV device such as set top boxes or DVD players equipped with an HDMI output connection.

④ **DIGITAL OUT (Optical Digital Audio)**
This jack provides Digital Audio Output for your audio device that is RAW and PCM compatible, such as an audio amplifier.

NOTE

The Digital Output option will grayout with all input sources, except with a digital program channel on the Air/Cable input source.

⑤ **RGB and AUDIO Input**
This jack provides RGB Audio Input for connecting a PC using RGB cable. This jack also provides Audio Input from a DVI device when connected to the HDMI 1 Input. A DVI (device) to HDMI (TV) connection must be made to HDMI 1.

NOTES

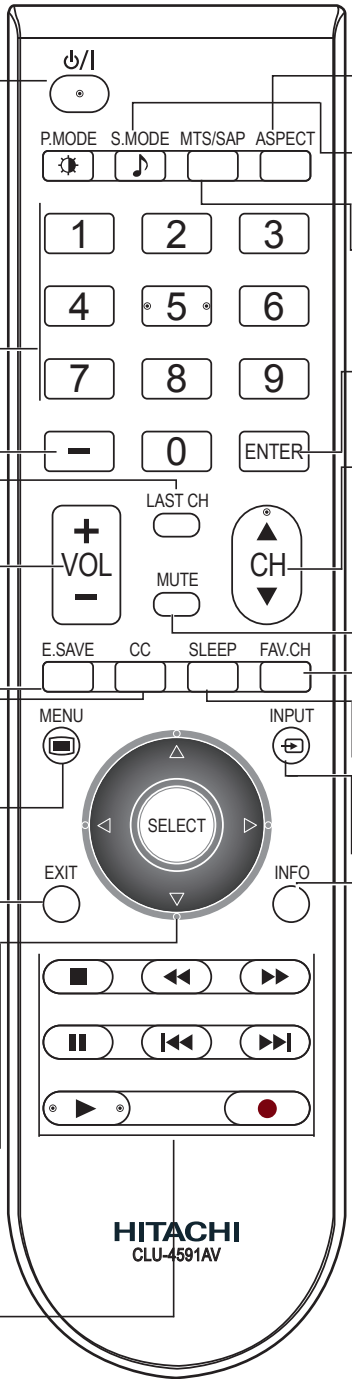
- *It is not neccessary to connect the DVI Audio Input when the connection to HDMI 1 is a HDMI to HDMI connection.*
- *The DVI Audio Input is only compatible with the HDMI 1 Input.*

⑥ **COMPOSITE AV1 Jacks**
AV1 input provides composite Video and S-Video jacks for connecting device with this capability, such as a DVD player, Game Console, or Camcorders.

⑦ **AUDIO OUT Jack**
This jack provides stereo audio output from your TV to your audio device, such as an audio amplifier.

Quick Reference Remote Control Buttons and Functions

In addition to controlling all of the functions on your Hitachi LCD TV, the new remote control is designed to operate different types of compatible HDMI CEC DVD Players. For HDMI CEC details please see page 31.



POWER Button
Press this button to switch the TV set On or Off standby.

PICTURE MODE Button
Picture mode can be changed each time pressed in the following sequence.

Dynamic → Standard → Movie → Game → Custom →

NUMERIC Buttons
Press these buttons to manually enter the channel and for numeric entry when navigating through the OSD menu system.

(-) DASH/SLEEP Button
Press this button to tune a digital channel. Also press to set your Sleep Timer from 5 minutes to 4 hours.

LAST CHANNEL Button
Press this button to switch between the current and the last channel viewed.

VOLUME Button
Press up (+) to increase or down (-) to decrease the audio level of your TV.

ENERGY SAVE Button
Press this button to set Power Consumption reduction based on three levels (Min, Med, Max).

CLOSED CAPTION (CC) Button
Press to show and change the closed caption mode.

MENU Button
Accesses the OSD menu system.

EXIT Button
Press this button to exit the OSD menu.

CURSOR PAD/SELECT Buttons
The Cursor PAD is used to navigate through the OSD and INPUT menu system, The Select button is used to Set/Activate highlighted menu items.

CONTROL Buttons (DVD with CEC)
Control the functions of compatible DVD players with HDMI-CEC control.

ASPECT Button
Press this button to change picture size.

SOUND MODE Button
Press this button to change the sound mode.

MTS/SAP Button
Press to change the audio source on the programs that are showing.

ENTER Button
Press this button to use as a SELECT feature.

CHANNEL UP/DOWN Buttons
Press these buttons to change the channel up or down.

MUTE Button
Press this button to reduce the audio level to 0 and press it again to restore.

FAVORITE CHANNEL Button
Press to access Favorite Channel mode.

SLEEP Button
Press to set your Sleep Timer from 5 minutes to 4 hours.

INPUT Button
Press this button to change the input mode.

INFO Button
Shows the input signal status and other information.

NOTES

- *The TV's remote control sensor is located on the left bottom corner of the TV frame. To control TV functions, please point the remote control directly at the sensor for best results.*
- *The pause button "II" on the remote control can be used to Freeze the picture on the screen, in case that this button is pressed by accident, please press it one more time to restore the moving picture.*

Quick Setup Guide

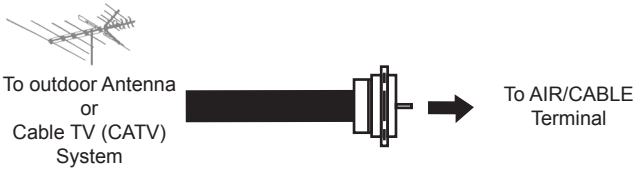
Perform the following steps to quickly setup your new Hitachi LCD Television Set.

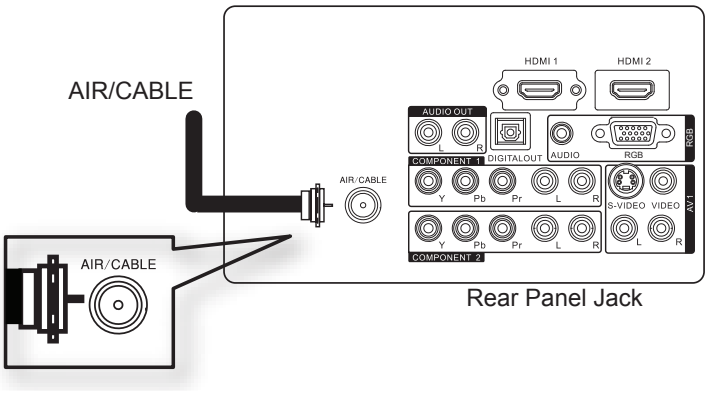
1. ANTENNA CONNECTION

Unless your LCD Television is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

a). VHF (75-Ohm) antenna/CATV (Cable TV)

When using a 75-Ohm coaxial cable system, connect the CATV coaxial cable to the AIR/CABLE (75-Ohm) terminal. Or if you have an antenna, connect the coaxial cable to the same AIR/CABLE terminal.

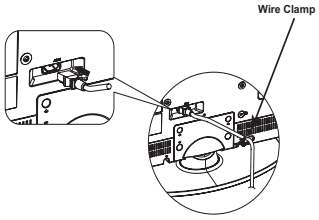




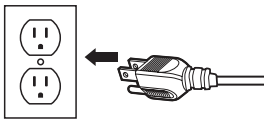
Rear Panel Jack

2. CONNECT YOUR NEW HITACHI LCD TV TO THE POWER SOURCE

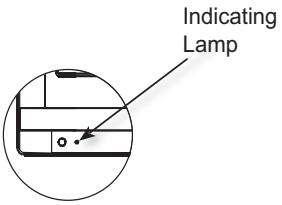
a). Connect the power cord to your TV set and secure it with the wire Clamp (see page 7) .



b). Connect the power code to the AC outlet.



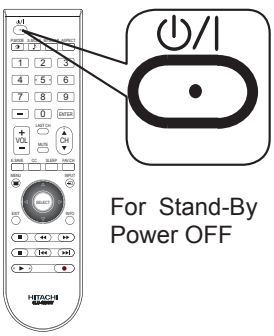
c). The Indicating Lamp will light red (Standby modes) and then light blue (picture is shown).



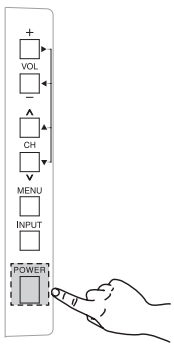
3. POWER ON/OFF YOUR NEW HITACHI LCD TV

Press the POWER button on the remote control or the POWER button on the Side Control Panel to power on/off the LCD TV.

NOTE *If the Indicating lamp is off, the POWER button on the remote control will not operate. Please make sure that the power cord is plugged to the AC outlet.*


For Stand-By
Power OFF

or

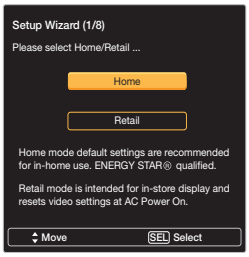


4. FOLLOW THE SETUP WIZARD INSTRUCTIONS ON NEXT PAGE

TV Setup Wizard

Your Hitachi LCD television has a TV Setup Wizard feature which has the ability to help you easily setup the first time you turn on your TV and find the channels available in your area. Please follow the instructions below.

The first time you turn on your Hitachi LCD TV, the Energy Savings Initial Settings screen will appear. Please select either Home or Retail mode settings to advance to the TV Setup Wizard screen. If you select Home mode, this will save energy, and is intended for home use. Retail mode will set the Picture to Dynamic default settings and the picture will be brighter. This setting is intended for showroom and shop use. If later you want to change the Energy Savings Initial Settings, you can use the Setup menu (refer to page 30).

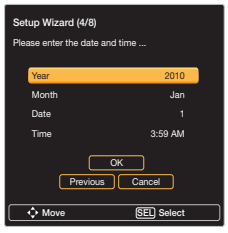

Setup Wizard (1/8)
Please select Home/Retail ...
Home
Retail
Home mode default settings are recommended for in-home use. ENERGY STAR® qualified.
Retail mode is intended for in-store display and resets video settings at AC Power On.
Move
SEL Select

NOTE *Retail mode is intended for showroom or shop use. If you make adjustment changes in this mode, they will not be saved when TV's AC power is lost (e.g. power cord unplugged).*

The TV Setup Wizard screen automatically starts after the Energy Savings Initial Settings the first time the TV is turned on.

The second step is to set the language of your TV On Screen Menu. Select the language that you prefer. Use the CURSOR PAD ▲ and ▼ to select language and press the SELECT button on the remote control.

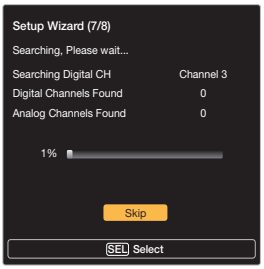
The third and fourth steps are to set the date and time. There are two options; one for automatic time setting in which you will select only the time zone in your area and the second option is a manual setup for the date and time. Use the CURSOR PAD to select and change the options with the remote control.



The fifth step is designed to find broadcasting or cable channels. There are two options, Air for an external antenna and Cable for a cable system provider in your home. Use the CURSOR PAD ▲ or ▼ to select a source and press the SELECT button on the remote control.

The sixth step will start the scanning feature to find the channels available on the antenna or cable system. Press the SELECT button on the remote control to start the channel scan.

The seventh step is the channel scanning process, it shows the scan of digital channels first and then the analog channels next. The scanning process will show how many channels have been found. Please be patient while the scanning process searches for the available channels in your area. If you wish to cancel the process, press the SELECT button on the remote control.



NOTES

- *Once the user cancels the wizard, the wizard will not be shown again.*
- *If you see the screen above and if you did not connect your Antenna cables to your TV, turn off your TV, unplug the power cord and connect your cables according to the applicable connections in the "First Time Use" section of this Owners Guide.*
- *After completing the TV Setup Wizard, these screens will not appear again. For updating and adding the channels available in your area refer to the Add Channels to List feature on page 33.*

The last step is the completion of process, it shows a brief message and you are ready to view TV programing. This final message will be shown for a few seconds and then the first detected channel will be tuned in. You may also press the EXIT button on the remote control to tune to the first detected channel.

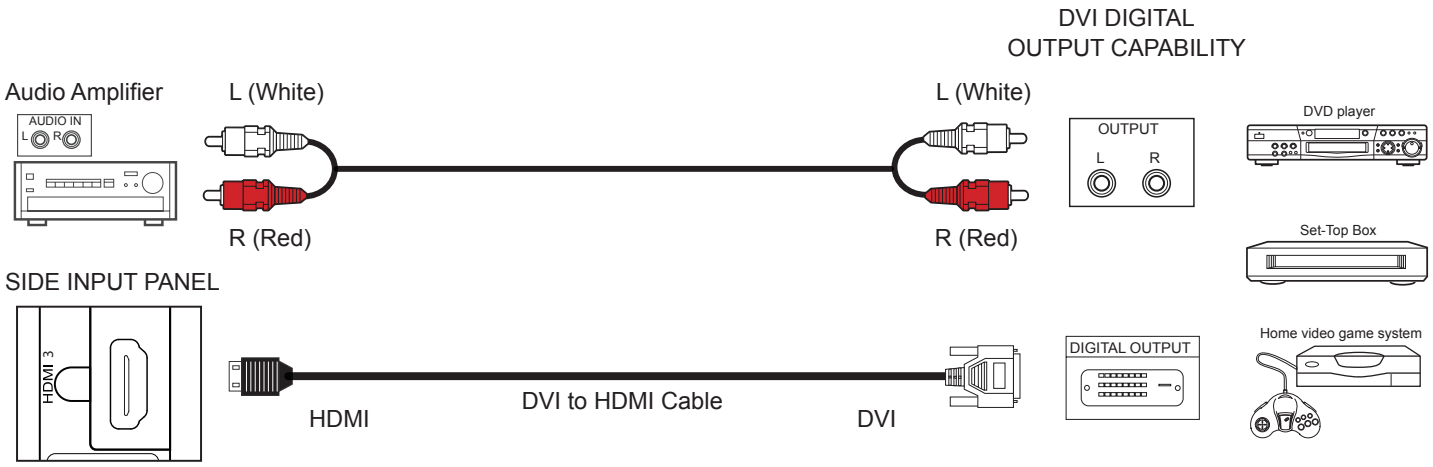
Side Panel Connections

The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of devices and features. For best performance, video and audio cables should be made from coaxial shielded wire.

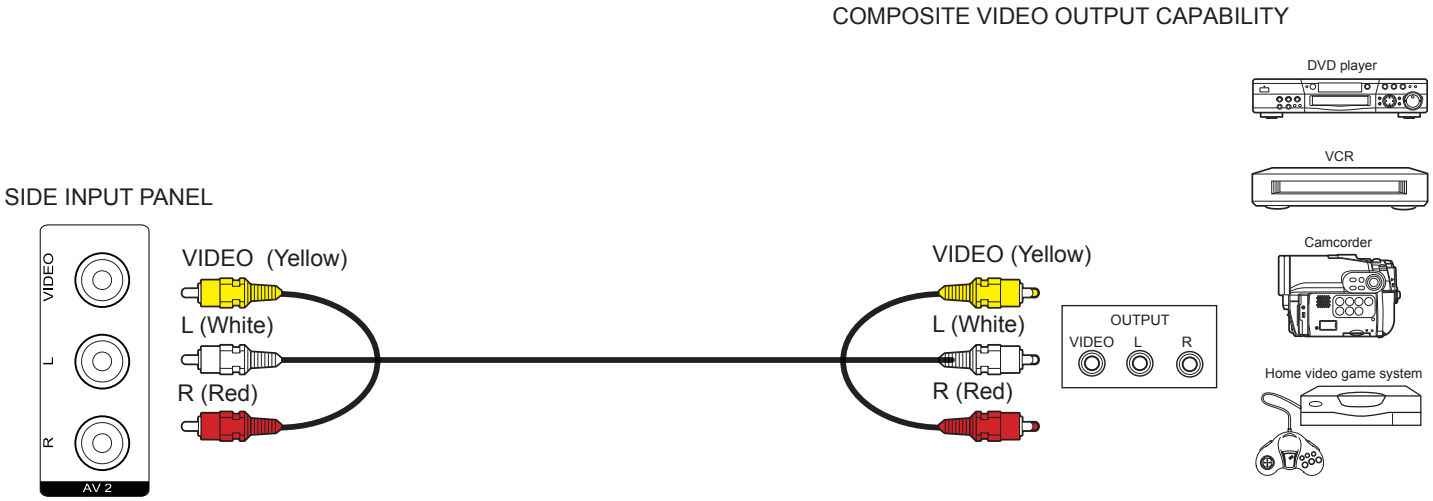
There are two SIDE panel HDMI jacks provided as a convenience to allow you to easily connect HDMI or DVI signals from a DVD, set top box, Video Game as shown in the following examples (When a DVI product is connected, the use of a separate audio device is necessary for audio, use an Audio Amplifier and connect to the Audio In jacks).

A) CONNECTING HDMI SIGNAL

B) CONNECTING DVI SIGNAL



The SIDE panel VIDEO jacks are provided as a convenience to allow you to easily connect a Camcorder, DVD, Video Game and a VCR as shown in the following examples.



NOTES

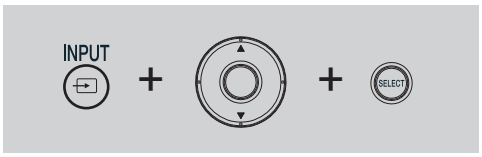
- *Completely insert connection cord plugs when connecting to side panel jacks. If you do not, the picture and/or sound may be abnormal.*
- *Cable plugs are often color-coded. Match colors of plugs and jacks, i.e. connect red to red, white to white, etc.*

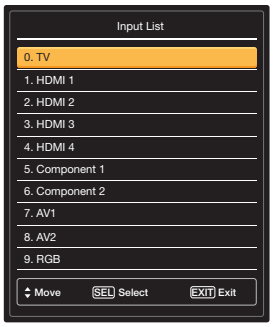
The exact arrangement you use to connect the VCR, Camcorder, DVD player, or HDTV set top box to your LCD TV is dependent on the model and features of each device. Check the owners guide of each device for the location of video and audio inputs and outputs.

Rear Panel Connections

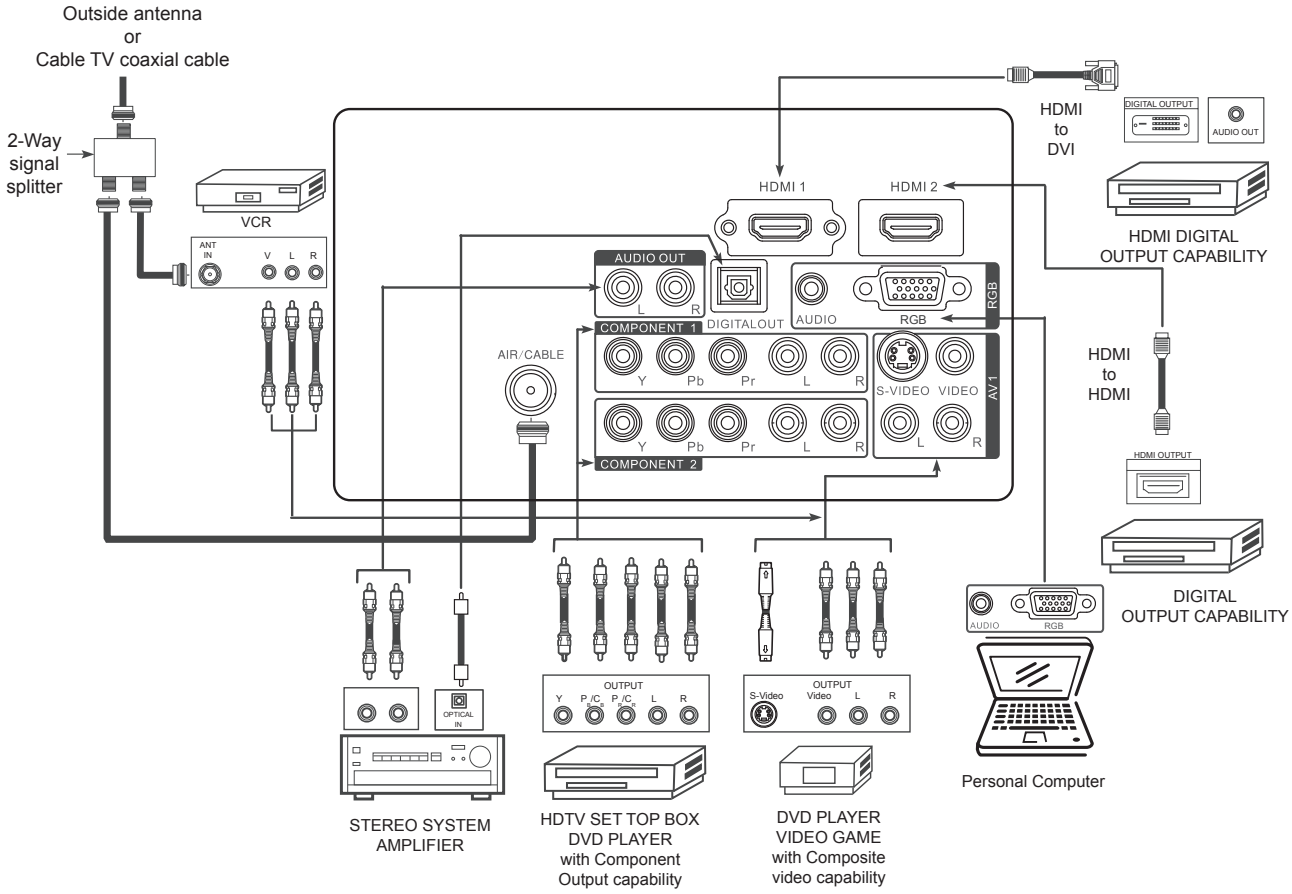
Before Operating External Video Devices

Connect an external device to one of the INPUT jacks, then press the INPUT button to show the Inputs List. Use the CURSORS (▲ and ▼) to select the Input of your choice. Then press the SELECT button to confirm your choice (see page 19).





Example: Selecting the TV (Air/Cable) Input and highlight “0.TV”.



NOTE *Cables are not included.*

TIPS ON REAR PANEL CONNECTIONS

- COMPONENT Y-PbPr (COMPONENT 1 & 2) or HDMI (1 & 2) connections are provided for high performance DVD players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.
- For additional information on connecting your other electronic devices, please refer to the device’s owners guide.
- Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV’s Pb input and the components R-Y output to the TV’s Pr input.
- Your component outputs may be labeled Y-CbCr. In this case, connect the components Cb output to the TV’s Pb input and the components Cr output to the TV’s Pr input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PbPr inputs. (See page 24).
- When using a HDMI input from a set top box, it is recommended to use a 1080p, 1080i or 720p input signal.
- When the HDMI input is a 1080p signal, it is recommended that the length of the cable should be less than 5 meters.

NOTES

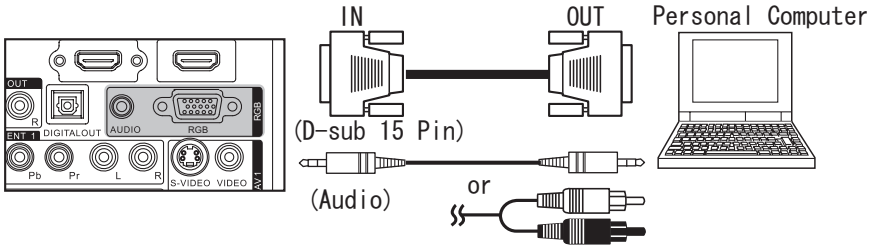
- *Completely insert connection cord plugs when connecting to side panel jacks. If you do not, the picture and/or sound may be abnormal.*
- *Cable plugs are often color-coded. Match colors of plugs and jacks, i.e. connect red to red, white to white, etc.*

Rear Panel Connections

CONNECTING A PERSONAL COMPUTER

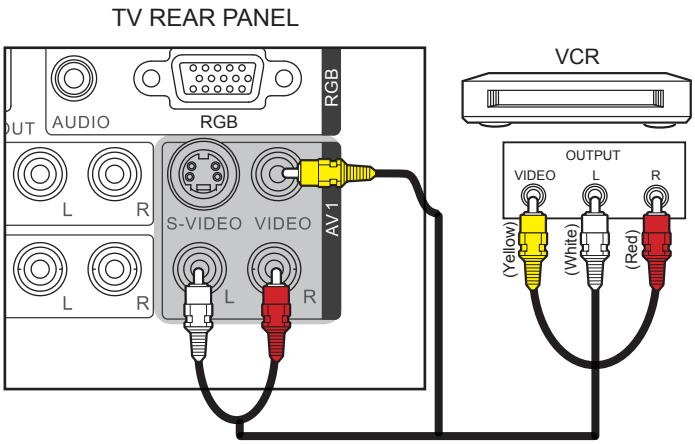
Use the RGB PC connection jack and the Analog Audio Input jacks to connect the PC.

1. Connect the RGB (D-sub 15 Pin) and AUDIO cable from the RGB and AUDIO OUT jack of the PC to the RGB and AUDIO jack, as shown on the Rear Panel on the right.
2. Press the INPUT button, then select RGB from the INPUTS menu to view the signal from the PC.



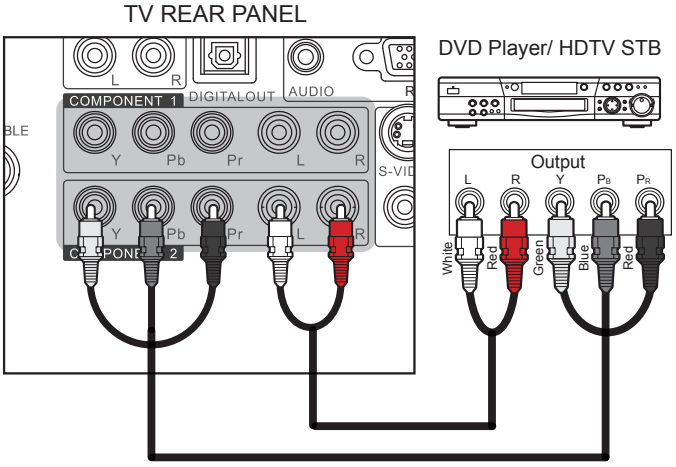
CONNECTING A VIDEO AND STEREO AUDIO DEVICE TO AV1

1. Connect the VIDEO and AUDIO cables from the VIDEO OUT and AUDIO OUT jacks of the VCR to the AV1 (VIDEO) jacks. A VCR connection to Rear Panel AV1 example is shown on the right.
2. Press the INPUT button, then select AV1 from the INPUTS menu to view the program from the VCR.



CONNECTING A DEVICE AND STEREO AUDIO DEVICE TO COMPONENT 1 or 2: YPbPr

1. Connect the Y, Pb/Cb, Pr/Cr and AUDIO cables from the Y, Pb/Cb, Pr/Cr OUT and AUDIO OUT jacks of the DVD PLAYER or HDTV set top box to the COMPONENT 1 or 2 YPbPr and AUDIO jacks. A DVD connection to Rear Panel COMPONENT 2 example is shown on the right.
2. Press the INPUT button, then select COMPONENT 1 or 2 from the INPUTS menu to view the program from the DVD player or HDTV set top box.



NOTES

- *Completely insert the connection cord plugs when connecting to rear panel jacks. If you do not, the picture and/or sound may be abnormal.*
- *Cable plugs are often color-coded. Match colors of plugs and jacks, i.e. connect red to red, white to white, etc.*
- *To return to the last channel viewed, select "0.TV" from the INPUTS menu.*

Rear Panel Connections

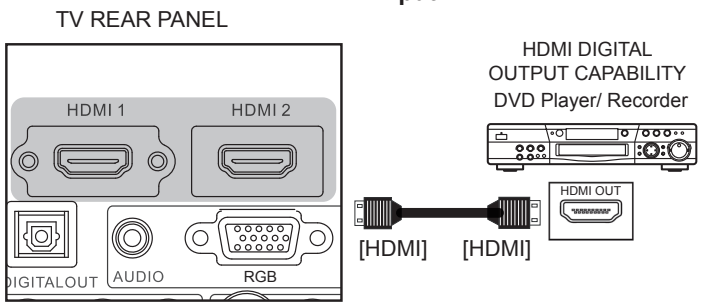
CONNECTING AN DEVICE WITH HDMI OR DVI CAPABILITY TO HDMI 1 & HDMI 2

1. Connect the HDMI or DVI to HDMI connection cable from the output of the HDTV set top box or DVD player to the HDMI input as shown near the Rear panel at right.

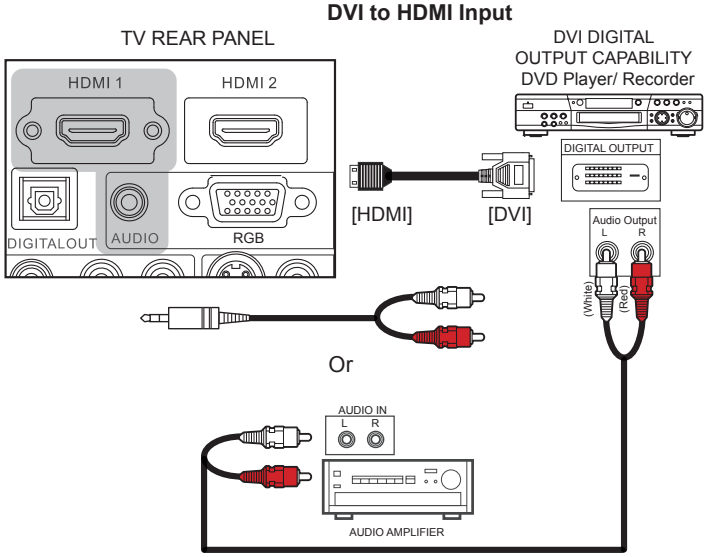
2. With DVI output devices, connect a DVI to HDMI cabel to the HDMI 1 input. Connect the audio out L and R cables to DVI Audio Input or connect the audio cables from the Audio output jack from the HDTV set top box or DVD player to an external audio amplifier as shown to the right.

3. Press the INPUT button, then select HDMI 1 or 2 to view the program from the HDTV set top box or DVD player.

HDMI Input



DVI to HDMI Input



Note : An external Audio amplifier can be used for the same purpose.

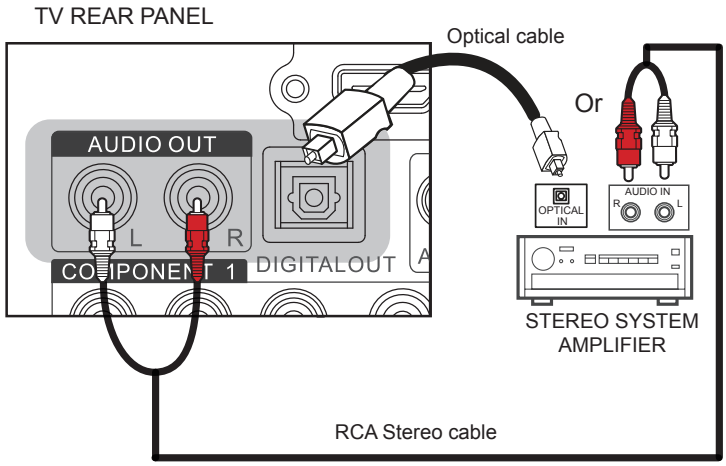
NOTES

- *Completely insert the connection cord plugs when connecting to the rear panel jacks. If you do not, the picture and/or sound may be abnormal.*
- *When using a DVI to HDMI cable, connect the Audio Out L and R cables to* an external audio amplifier.
- *The HDMI input on HDMI 1, 2, 3 and 4 contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using HDMI connections to prevent illegal copying of video contents.*
- *HDMI is not a "NETWORK" technology. It establishes a one-way, point-to-point connection for delivery of uncompressed video to a display.*
- *The connected digital output device controls the HDMI interface, so proper set-up of device user settings determines final video appearance.*
- *Only HDMI 1 can support DVI audio input.*

CONNECTING AN EXTERNAL AUDIO AMPLIFIER

To monitor the audio level of the LCD TV to an external audio amplifier, connect the system as shown on the right. The DIGITAL OUT and AUDIO OUT from the Rear Panel is a fixed output. The Volume of the amplifier is controlled by the amplifier, not by the LCD Television.
The DIGITAL OUT jack outputs all audio sources to device with Optical IN capability.

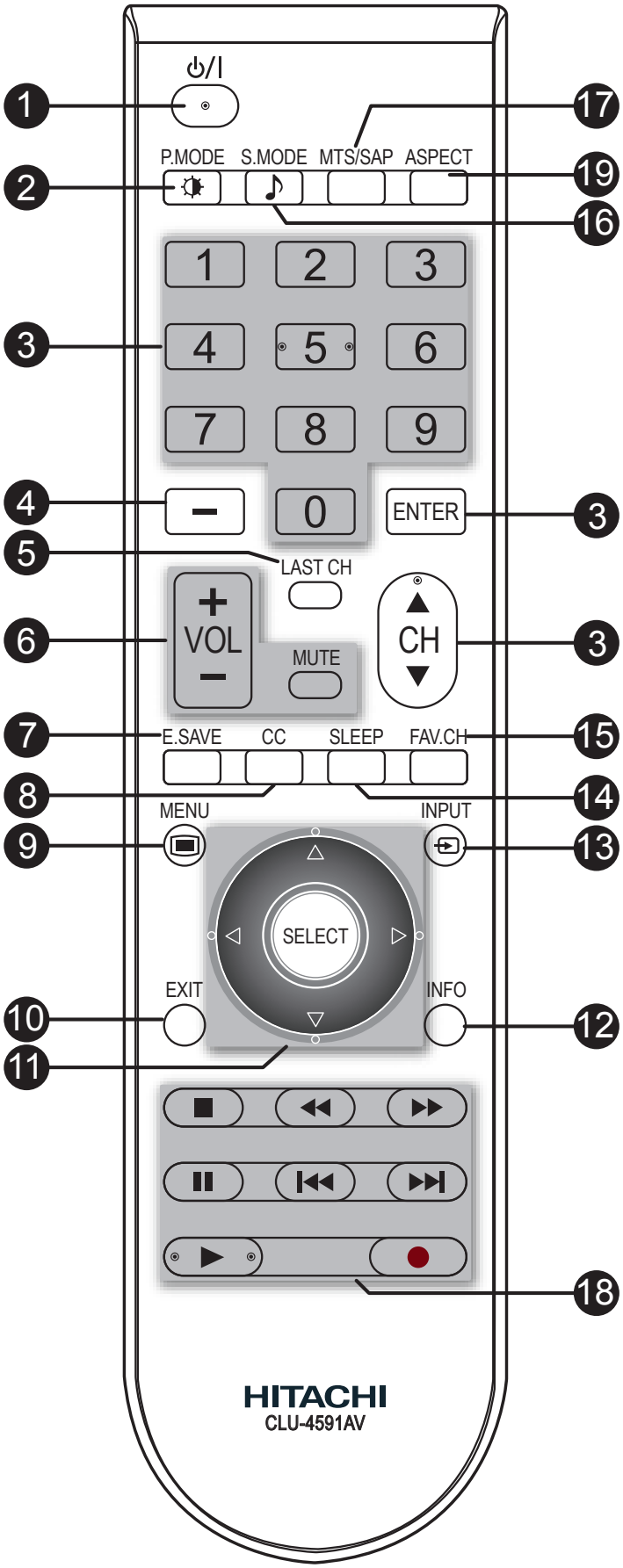
1. Connect an optical cable from the DIGITAL OUT to the OPTICAL IN of a separate Stereo System Amplifier as shown on the Rear Panel on the right.
2. Connect an RCA stereo cable from the AUDIO OUT to the Audio input of a separate Stereo System Amplifier as shown on the Rear Panel on the right.



NOTES

- *Completely insert the connection cord plugs when connecting to rear panel jacks. If you do not, the picture and/or sound may be abnormal.*
- *Cable plugs are often color-coded. Match colors of plugs and jacks, i.e. connect red to red, white to white, etc.*
- *To return to the last channel viewed, select "0.TV" from the INPUTS menu.*

The Remote Control



❶ POWER Button
Press this button to turn the TV set on or off.

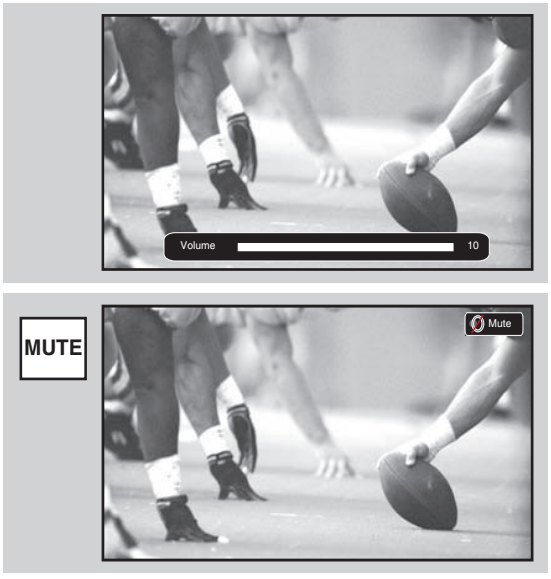
❷ PICTURE MODE (P.MODE) Button
Press this button to toggle between Dynamic, Standard, Movie, Custom and Game picture mode settings. Select Dynamic mode for automatic brightness and contrast adjustment. Select Standard mode for day time viewing with more brightness and contrast to compete with room light. Select Movie mode for viewing with less brightness and contrast for a more detailed picture. Select Custom mode for viewing with your own brightness and contrast picture settings. Game mode for automatic brightness and contrast adjustment when playing video games.(see page 24 for settings changes).

❸ CHANNEL SELECTOR / ENTER Buttons
The CHANNEL SELECTOR buttons are used to select channels, lock access code, etc. Use the CHANNEL SELECTOR buttons to enter one, two, or three numbers to select channels. Enter 0 first for channels 1 to 9, or simply press the single digit channel you wish to tune, then press the ENTER button for the TV to tune. Channel selection may also be performed by CHANNEL (CH) UP (▲) or CHANNEL (CH) DOWN (▼).

❹ (-) DASH /SLEEP Button
Use the (-) DASH button with the CHANNEL SELECTOR buttons to enter Digital Channels that have subchannel numbers indicated by (-) DASH (example 15-1). Also press to Set the Sleep Timer from 5 minutes to 4 hours.

❺ LAST CHANNEL Button
Press this button to toggle between the current and last channel viewed.

❻ VOLUME (VOL), MUTE Button
Press the VOLUME button (+ or -) until you obtain the desired sound level.
Press the MUTE button to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or VOL UP (+).



Closed Captioning will display automatically when MUTE is on and Closed Caption is set to With Mute (see page 30). When the TV power is turned off at a volume level 16 or greater, the volume level will default to 15 when the TV is turned on. However, if it is set to a level 15 or less, the volume level will be at the level it was set when the TV was turned off

❼ ENERGY SAVE (E.SAVE) Button
Use this button to choose power consumption reduction settings based on 3 levels (MIN., MEDIUM, MAX).

❽ CLOSED CAPTIONS (CC) Button
Use this button to display the dialogue, narration, and/ or sound effects of a television program or home video which are displayed on the TV screen when available. Your local TV program guide denotes these programs as CC or .

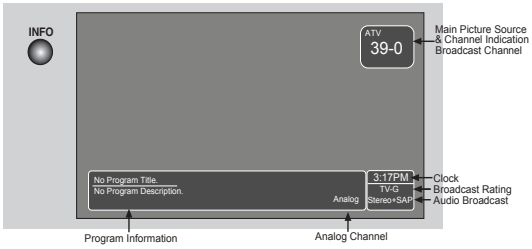
❾ MENU Button
The MENU button will start the On-Screen Display.

❿ EXIT Button
This button will exit all On-Screen Displays.

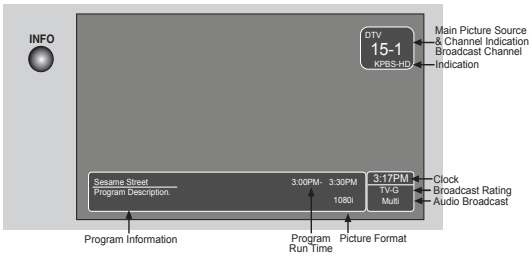
⓫ CURSOR PAD /SELECT Button
All the On-Screen Display features can be set or adjusted by using the CURSOR PAD and the SELECT button, except for numeric entries. Press the CURSOR PAD toward desired direction and press the SELECT button to select.

⓬ INFO Button
Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, and CHANNEL ID.

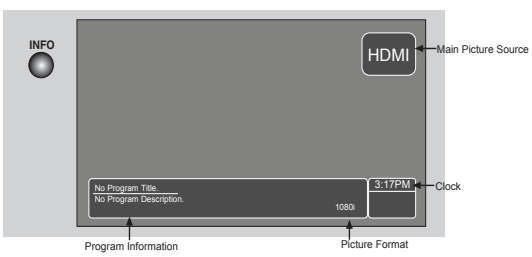
ANALOG CHANNELS



DIGITAL CHANNELS

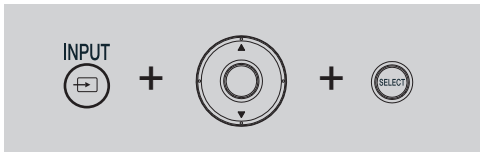


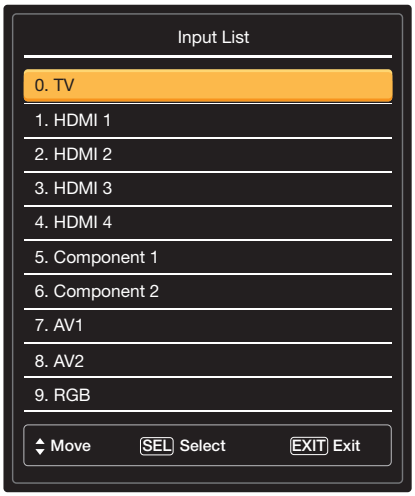
VIDEO INPUTS



NOTES
- *Press the INFO button again or the EXIT button to return to normal viewing.*
- *The Aspect INFO will not be shown when the INFO button is pressed*

⓭ INPUT Button
Press this button to access the INPUTS menu. Use the CURSOR PAD and SELECT buttons to scroll and select the inputs that are being used. Pressing the INPUT button repeatedly will also cycle through the Inputs menu items. Then press the SELECT button or wait 4 seconds to automatically select the highlighted input.



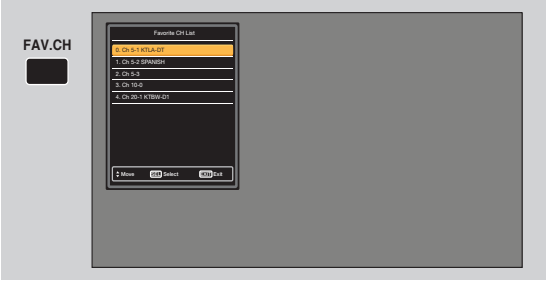


0.	TV	Watch TV from an Air or Cable signal.
1.	HDMI 1	Select to choose HDMI 1 Input.
2.	HDMI 2	Select to choose HDMI 2 Input.
3.	HDMI 3	Select to choose HDMI 3 Input.
4.	HDMI 4	Select to choose HDMI 4 Input.
5.	Component 1	Select to choose Component Input 1.
6.	Component 2	Select to choose Component Input 2.
7.	AV 1	Select to choose AV1 Input.
8.	AV 2	Select to choose AV2 Input.
9.	RGB	Select to choose PC input.

⓮ SLEEP Button
Press this button to set the Sleep Timer from 5 minutes to 4 hours.

⓯ FAVORITE CHANNEL (FAV.CH) Button

Press the FAV.CH button to display the Favorite CH List. You have to first setup the Favorite Channels in the Channels Menu in order display the list. Press the FAV.CH button on the remote control to display the list and select the desired channel using the CURSOR PAD and then press SELECT button to view.



⓰ SOUND MODE (S. MODE) Button

Press this button to change the sound mode. There are 4 modes available, Custom, Standard, Movie and News. Selecting the Custom Mode allows you to set the audio options to your preference..

⓱ MTS/SAP Button

Press to change the audio source on the programs that are showing. For analog channels the signal choices(if available) are Stereo, SAP, and Mono. For digital channels this button will change the language(when available). (English, Spanish, etc.).

⓲ CEC DEVICE Buttons

These buttons can control external devices (i.e. PVR/VCR, DVD, etc.) directly depending on the device mode set on the remote control. Also, these buttons are for controlling devices with Consumer Electronics Control (CEC) through the HDMI connection like Blu-Ray or DVD players, PRV, set top box while in TV mode.

NOTE *For some devices, these buttons are not available to control through the TV and HDMI connection; please refer to the device's owners guide for more information.*

How To Use The Remote Control To Control Your TV

⑲ **ASPECT Button**
Press this button to quickly change the picture format ASPECT ratio. Depending on the input picture format, ASPECT allows you to adjust the image through the following options.

Auto
Use this aspect mode to have the aspect mode change automatically by signal detector.

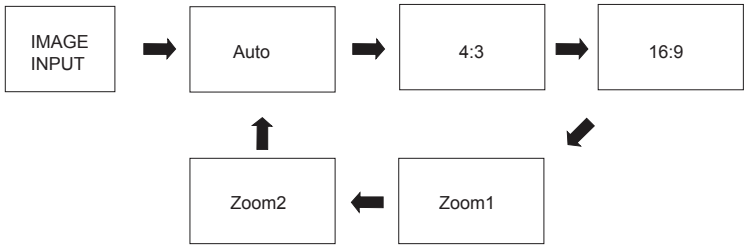
4:3
Use this aspect mode to display conventional (4:3) images. Side panels (black areas) are placed to the left and right of the image to preserve the original aspect ratio of the source.

16:9
Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio showing 95% of the size.

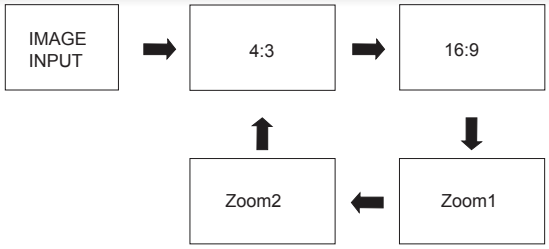
Full
Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio showing 100% of the size.

Zoom1/Zoom2
Use these aspect modes to zoom in and to reduce the black bars.

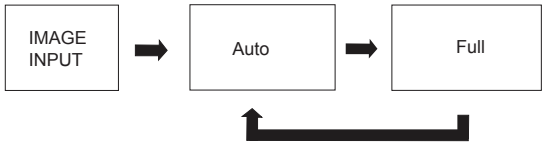
- AIR/CABLE - Analog Signal
- AIR/CABLE - Digital Signal
- COMPONENT



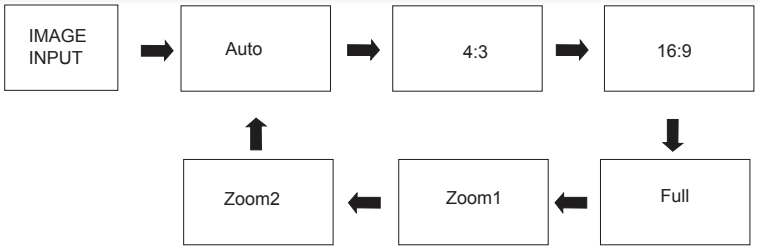
- AV



- HDMI - VGA
- DVI - VGA
- RGB



- HDMI - 1080p/1080i/720p/480p/480i
- DVI - 1080p/1080i/720p/480p/480i



NOTES

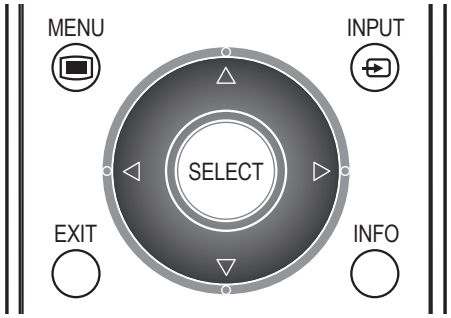
- *Each input has memory for the Aspect setting. Changing the aspect on one input will not affect the aspect settings on other inputs.*
- *When displaying "Full" you may notice noise at the top of the picture. Select the "16:9" aspect mode to remove the noise. The noise is normal for some signals.*
- *See page 48 for Aspect availability according to signal format in use.*

On-Screen Display

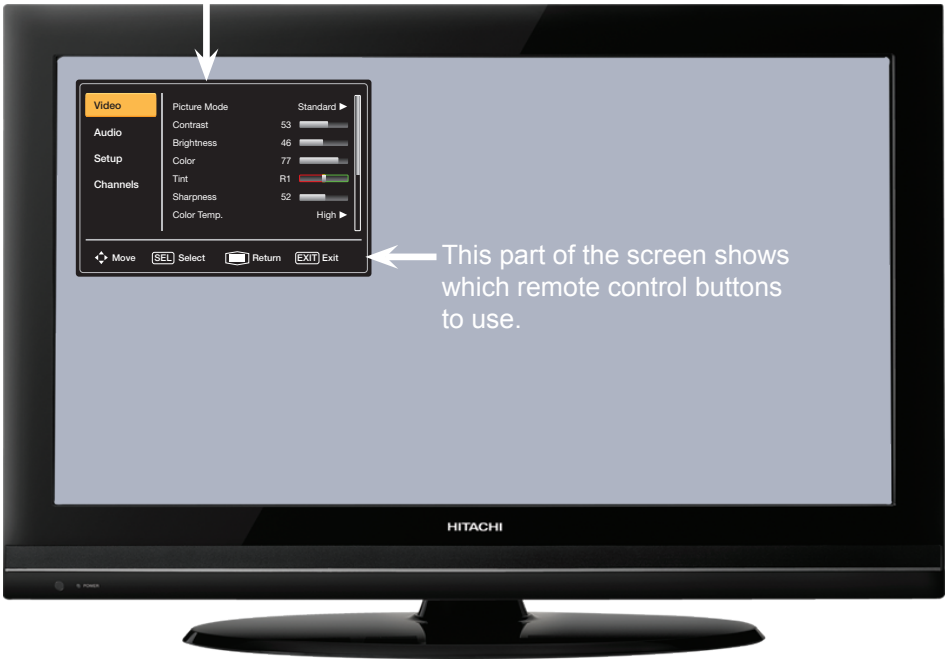
1. Press the MENU button on the remote control to display the different features on your Hitachi LCD TV.

2. Use the CURSOR PAD (buttons, ▲, ▼, ◄ and ►) and highlight a different feature of the On-Screen Display menu. Press the SELECT button to select.

3. Press the EXIT button on the remote control to quickly exit from any menu.



This part of the screen shows which selections are available.



NOTE *The On Screen Display (OSD) for the different submenus shown in the following pages are for illustration purposes only, there may be slight differences from the actual appearance of the OSD of your Hitachi LCD TV.*

Video

Picture Mode	Select among 5 pictures modes: Dynamic, Standard, Movie, Custom, and Game.
Contrast	Adjust picture contrast.
Brightness	Adjust picture brightness.
Color	Adjust color.
Tint	Adjust tint.
Sharpness	Adjust sharpness.
Color Temp.	Set this to High for less intense color with more blue, set to Medium for natural color and set to Standard for warm colors.
Noise Reduction	Reduces conspicuous noise in the picture.
Backlight	Adjust to increase or decrease the brightness of backlight.
Auto Movie	Select the 3:2 Pull down detection feature Auto/Off. For a film like picture.
Aspect Ratio	Choose the picture format aspect ratio.
Reset	Choose to Reset Video Settings to factory settings.

On-Screen Display

Audio

Sound Mode	Selects 4 audio presets (Custom,Standard, Movie, News).
Bass	Adjust the intensity of low frequencies.
Treble	Adjust the intensity of high frequencies.
Balance	Adjust the balance.
CONEQ	Select sound equalizing mode.
Audio Source	Select among three Audio Sources (Stereo, Mono, SAP).
Preferred Language	Select Language options if available (Available for digital channel).
Audio Language	Select Language options if available.
Digital Output	Select Optical Output options.
Internal Speakers	Turn On/Off internal speakers.
Perfect Volume	Adjust volume to be closer in level between channels.
Reset	Resets all Audio settings the original condition.

NOTE *The Audio Language and Digital Output of the Audio OSD are only available for Digital channels.*

Setup

Menu Language	Choose English, French or Spanish OSD Language.
Time	Set Clock Settings.
Sleep Timer	Set Sleep Timer intervals (5 minutes ~ 4 hours).
Set Password	Set the password for the Parental control access.
Parental Controls	Ratings system to block various types of programs.
Closed Captions	Feature to turn On/Off closed captions.
Digital Captions	Feature to display DIGITAL dialogue/text.
Digital Caption Options	Feature to change the appearance of the DIGITAL CAPTIONS.
Analog Captions	Feature to display ANALOG dialogue/text.
Energy Options	Select Power Consumption Savings options.
HDMI-CEC	Set to ON, this feature will enable simplified operation of compatible HDMI CEC devices.
Input Labels	Label Video Inputs, VCR, DVD, etc.
Component Options	Adjust the Phase and applies Reset to any adjustments made.
RGB Options	Adjust Horizontal Position, Vertical Position, Clock, Phase and Reset.
Reset AV & Setup	Resets all Audio, Video and Setup settings to the original condition.

Channels

Source	Selects the type of signal to be used Cable or Air.
Signal Strength	Access Signal Strength meter.
New Channel Scan	Set Auto Channel Scan.
Add Channels to List	Adds Channels to the List (Scanned channels remain the same until New Channel Scan is performed).
Channel List	Set Channel List.
Channel Labels	Set Labels on the channels.
Favorite Channels	Set the Favorite Channels.

NOTE *The Signal Strength feature of the Channels OSD is only available for Digital (DTV) channels.*

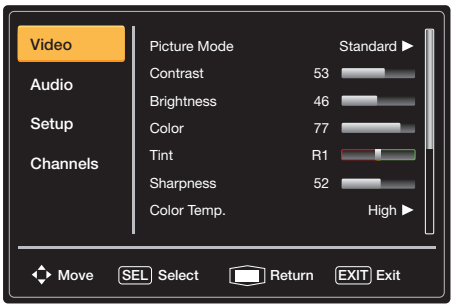
NOTE *If there are any options grayed out, this is an indicator that option is not available for that specific function or mode.*

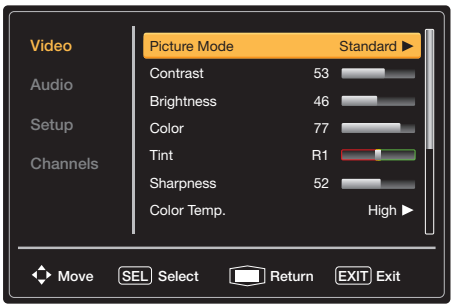
NOTE *Changing any Video/Audio settings, other than the Standard/Default settings, may not meet ENERGY STAR requirements.*

Video

Select Video to adjust picture settings and improve picture quality. You can independently customize each of the video inputs, including Analog channels separately from Digital Channels (under TV Mode). Adjustments will be applied to Custom settings.

MENU





Picture Mode

Use this function to choose from preset picture settings to optimize your TV's performance.

1. Use the CURSOR PAD ▶ to select Picture Mode settings (Dynamic, Standard, Movie, Custom or Game).
2. Then press the ◀ button to return to the Video menu or press the EXIT button to quit menu.
3. There are 5 Picture Modes available : Dynamic, Standard, Movie, Custom and Game mode. Standard mode is the factory preset mode for your TV. The only mode that can be changed by adjusting any video setting to your desire conditions is Custom mode. The other modes are preset and can not be change.

NOTES

- *For the PC input there are only two Picture modes available Standard and Custom. In this case only Custom can be changed* to your desired conditions.
- *Video Setting can be set to the user's preference in Game mode (Similar to Custom mode) with the exception of, Auto Movie setting.*
- *If you change any of the adjustments in the Dynamic, Standard and Movie modes, the name of the Custom option will change. For example, changes on Dynamic will rename the option as "Custom-Dyn.". This means that the original picture mode is not affected by the changes; the only things affected in that Custom mode will take the video adjustments on the mode where the change was made.*

Other Video Menu Setting Adjustments

Use the CURSOR PAD ▲ or ▼ to highlight the function to be adjusted.

1. Press the SELECT button or the CURSOR PAD ▶ to select the function settings.
2. Press the CURSOR PAD ◀ or ▶ to adjust the function.
3. Press the MENU button to return to main menu.
4. Press the EXIT button to quit menu.

Contrast

Use this function to change the contrast between black and white level in the picture.

Brightness

Use this function to change the overall brightness of the dark areas of the picture.

Color

Use this function to adjust the level of color in the picture.

Tint

Use this function to adjust flesh tones so they appear natural.

Sharpness

Use this function to adjust the amount of fine detail in the picture.

Color Temperature

Set this to High for cooler color with more blue, set to Medium for a more natural color or set to Standard for accurate color.

Noise Reduction

The NOISE REDUCTION function automatically reduces conspicuous noise in the picture without degrading picture quality. Set NOISE REDUCTION to OFF if you see individual blocks in the picture.

Backlight

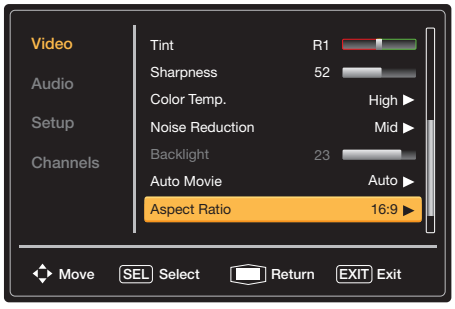
Adjust the brightness of the Backlight for maximum visibility. It changes the intensity of the backlight. Increase for bright rooms and decrease for darker rooms to make the dark areas of the picture black.

Auto Movie

The AUTO MOVIE function turns Auto or OFF the 3:2 pull down detection feature. Theatrical movies are shot on film at 24 frames or still pictures per second, instead of 30 frames or 60 fields like video. When film is transferred to video for television viewing, the disparity between the two frame rates must be reconciled. This involves a process known as 3:2 pull down. When AUTO MOVIE is set to Auto your Hitachi LCD Television will activate the circuitry for this special feature to improve video performance when watching interlaced format film based sources. Set to OFF to deactivate this feature.

Aspect Ratio

Use this function to select the Picture Format Aspect Ratio.



Auto Aspect

Automatically adjust the Aspect Ratio depending on the input signal.

Aspect Modes

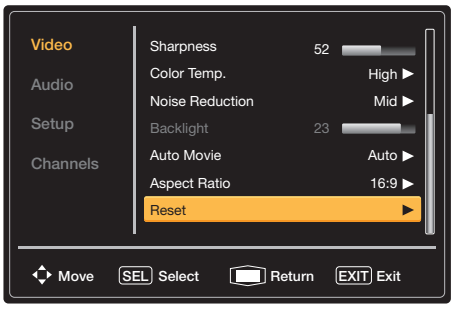
Manually select the Aspect Ratio. There are different aspect ratios available according to the signal in use. See page 48.

Aspect Ratio reference

Input Signal	Display Screen	Display Aspect Recomended	To display suitable screen as follows.
When Watching Standard Definition Pictures:			
(4:3 Signal)		4:3	Displays 4:3 programs in there original aspect ratio with bars to the left and right of the image.
		16:9	Expands a 4:3 aspect ratio program to fill the widescreen 16:9 screen
(Vista)		Zoom1	Use this aspect mode to expand letterbox movies to fill the screen. Note that some of the image may not be visible.
(Cinema)		Zoom2	Use this aspect mode to fill the screen with very widescreen movies. Note that some of the image may not be viewable in this mode.
When Watching High Definition Pictures:			
(16:9 Signal)		16:9	Plays a 16:9 image faithfully showing 95% of the size.
		Full	Use this mode when you want to see 100% of the signal. Note that some signals have noise. In the case of noise use the 16:9 mode.

Reset

This function allows you to reset the Video Menu Settings of the present input source and return it to the Standard video mode.



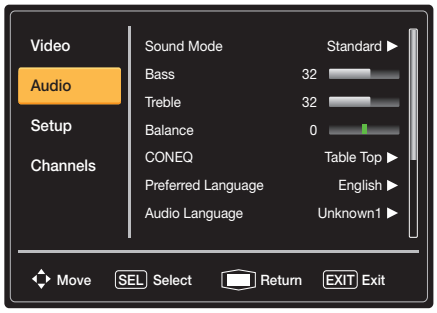
1. Use the CURSOR PAD ▲, ▼ to the highlight functions.
2. Press the SELECT button or CURSOR PAD ▶ to select Yes or No.
3. Press the SELECT button on the Yes option to execute the reset of the Video settings.

Depending upon the video program being viewed, you can customize each video input to your preference to increase viewing performance and pleasure.

If you run this Reset menu, only the preset input source will reset to its initial condition. For example, if the Reset menu has been selected ad done for HDMI 1 input source, only the HDMI 1 settings will return to its factory default.

Audio

Select Audio to adjust the sound to your preference.



Sound Mode

This function has four sound modes that are preset according to the type of program. Standard mode is for normal audio conditions, Movie mode is for movies, News mode is for News programs, and Custom mode is for adjusting audio levels to your preference. The only mode that can be directly changed by adjusting any audio setting to your desired conditions is the Custom mode. The other modes are preset and any changes made to these modes will be applied to Custom mode.

Audio Menu Settings Adjustment

1. Press the CURSOR PAD ▲ or ▼ to select menu item.
2. Press the CURSOR PAD ◄ or ► to adjust the function.
3. Press the EXIT button to quit the menu, or select Audio to return to the main menu.

NOTE *If Treble is selected you are adjusting treble. The additional menu items Bass and Balance can be selected and adjusted in the same manner.*

Bass

This function controls the low frequency audio to the speakers.

Treble

This function controls the high frequency audio to the speakers.

Balance

This function will control the left to right balance of the LCD TV internal speakers and headphone jack.

CONEQ

Delivers clear crisp sound and high fidelity music playback. Use the CURSOR PAD ► to select the preferred setting.

Table Top: Use this setting for improved sound quality with table top stands.

Wall Mount: Select this setting for improved sound quality when wall mounting.

Hearing Aid: This special mode is for users that want to maintain clear sound after removing their conventional hearing aid. Note that this feature emphasizes higher frequencies.

Audio Source

Multi-Channel Television Sound will allow you to select STEREO (a stereo broadcast), Mono (monaural sound) used when receiving a weak stereo broadcast or SAP (Second audio Program) which may be a secondary language, weather report, etc. This setting is only for analog channels.

Preferred Language

Some programs transmit in other languages. This language function will allow you to set between 3 language options (English, Español, and Français) to your preference as the audio default language. This setting is only for digital channels.

Audio Language

Some programs transmit more than one DTV language option. Most will have English as a default language. The language function will allow you to select up to 6 language options (if available). Please try all available options.

Digital Output

This function allows you to select between RAW and PCM. This setting changes the format of the Digital Optical Output.

PCM: Select this feature if the TV is connected to an amplifier / receiver with a PCM only decoder; it will provide two independent soundtrack channels through the optical audio output jack (Digital Audio).

RAW: Select this feature to allow the original audio bit stream to be passed through to the audio receiver.

Internal Speakers

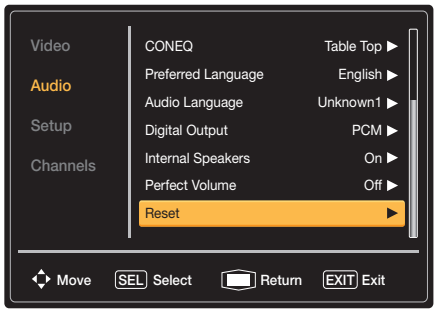
This function is useful when using external speakers. Select On if using the internal speakers only. Select Off if you prefer to use the speakers from a separate stereo system.

Perfect Volume

This function will automatically adjust volume so each channel and input has the same average volume level.

Reset

This function allows you to reset the Audio Menu Settings of the present input source and return it to the Standard mode and default settings.



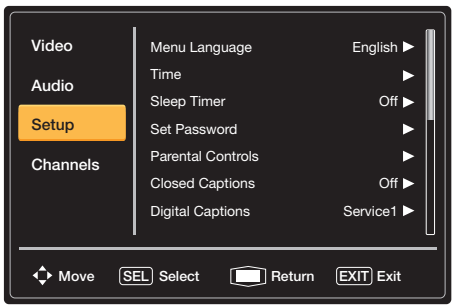
1. Use the CURSOR PAD ▲ or ▼ to highlight functions.
2. Press the SELECT button or CURSOR PAD ► to select the select Yes or No.
3. Press the SELECT button on the Yes option to execute the reset of the Audio settings.

Depending upon the audio program being heard, you can customize each audio input to your preference to increase audio performance and pleasure.

All the input sources will be reset to its initial condition by running this Reset menu.

Setup

Select Setup when setting your TV up for the first time.



1. Use the CURSOR PAD ▲ or ▼ to select the Setup menu.
2. Use the CURSOR PAD ► to enter the option of your choice and make the changes that you need.
3. Press the MENU button to return.

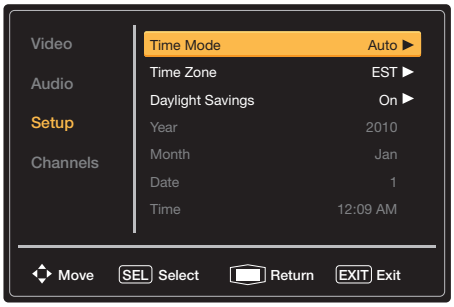
Menu Language

Sets the Language of the Menu OSD. This feature will allow you to select any one of three different languages for the on-screen displays.

1. Use the CURSOR PAD ► to select the language of your choice.
2. Press the EXIT button to quit the menu or MENU button to return to the previous menu.

Time

Use this option to set the Clock, Date and Time Zone for your LCD TV.



1. Use the CURSOR PAD ▲, ▼ and ► to highlight and setup the Time settings.
2. If you observe daylight savings, use the CURSOR PAD to highlight Daylight Savings and press the CURSOR PAD ► to activate it. This can only be changed if the Time Mode is set to Auto.
3. Use the CURSOR PAD to highlight and adjust the Current Time (hour and minute), AM or PM, Month, Day, and Year.
4. Press the SELECT button to set the Time.
5. Press the EXIT button to quit the menu or the MENU button to return to the previous menu.

NOTES

- *When Auto is set Daylight Savings can be set, the TV will automatically calculate the clock adjustment for Daylight Saving. Set this setting according to the current DST status.*
- *The TV counts electrical pulses for regulating the timers. When the power cord is unplugged quickly, the clock will reset to factory default setting.*
- *The Year, Month, Date, and Time setup can be changed only if the Time Mode is set to Manual.*

Set Sleep Timer

Select this feature to set your Sleep Timer from 5 minutes to 4 hours.

1. Press the CURSOR PAD ► repeatedly to set your Timer from Off, 5 min, 10 min, 15 min, 30 min, 60 min, 90 min, 120 min, 180 min and 240 min.

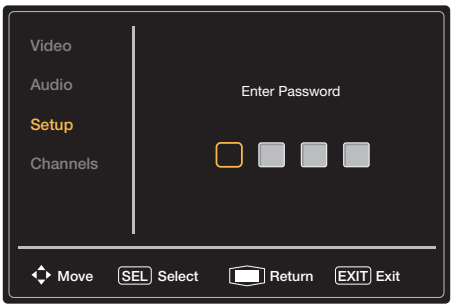
Set Password

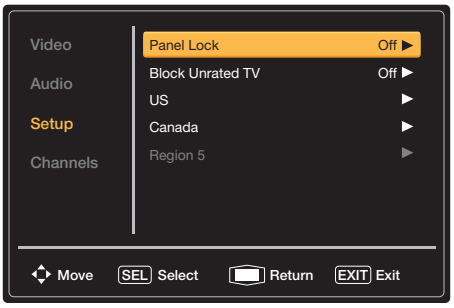
1. To change the password, select Set the Password option to change the factory preset password (0000) to your preference. If you forget your password, use the factory password 7777 to erase your password. This will reset the possword number back to the factory preset (0000).
2. Enter a new four digit number.
3. Press the EXIT button to quit the menu.

Parental Controls

This function will block out the picture and sound of the selected rating levels.

The password to enter the Locks feature is a four digit number. The factory preset password is 0000. Use the NUMERIC buttons to enter the password.





Panel Lock

When Panel Lock is turned On, all buttons on the Side Panel, except the POWER button will be deactivated.

Block Unrated TV

When this feature is turned On, programs without ratings will be blocked.

US

This option will block TV and Movie Ratings in the USA to prevent viewing of any content that you feel may be inappropriate (see page 28).

Canada

This option will block TV and Movie Ratings in Canada to prevent viewing of any content that you feel may be inappropriate due to its content (see pages 28, 29).

Motion Picture Ratings Table

NOT RATED	Contains no rating. Not Rated (NR) and Not Applicable (NA) programs. Movie has not been rated or ratings do not apply.
G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only

NOTES

- *If the movie does not carry a rating, the TV will not block it.*
- *Blocking NOT RATED programs may block emergency programming, sports, news, public service announcements, religious programs and weather.*

TV Parental Guide Ratings Table

TV-Y	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
TV-G	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	Parents strongly cautioned. This program may contain sophisticated themes, intense sexual situation, more intense violence and intensely suggestive dialogue.
TV-MA	Mature audiences only. This program may contain mature themes, indecent language, graphic violence, and explicit sexual content.
FV: Fantasy/Cartoon Violence V: Violence S: Sexual Situation L: Adult Language D: Sexually Suggestive Dialogue	

NOTES

- *If you Block TV-14D, you will still permit TV-MA programs; If you block TV-14V, you will automatically block TV-MAV programs, but you will still permit TV-MALS programs. This means that the TV will block violence in TV-14 and higher (TV-MA), but not language and sex.*
- *TV program ratings are dependent on the broadcaster. If the program is not rated, the TV will not block it.*

Canadian Ratings English Table

C	Programming intended for children under age 8 - Violence Guidelines; Careful attention is paid to themes, which could threaten children's sense of security and well-being. There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other Content Guidelines: There will be no offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over to watch on their own - Violence Guidelines: Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict; or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other Content Guidelines: There will be no profanity, nudity or sexual content.
G	General Audience - Violence Guidelines: Will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will not depict realistic scenes of violence which minimize or gloss over the effects of violent acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and no nudity.
PG	Parental Guidance - Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriate for unsupervised viewing by children ages 8-13. Violence Guidelines: Depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14 - Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.
18+	Adult - Violence Guidelines: May contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

Canadian Ratings French Table

G	General - Programming intended for audiences of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.
8 ans+	8 + General - Not recommended for young children - Programming intended for a broad audience but contains light or occasional violence that could disturb young children. Viewing with an adult is therefore recommended for young children (under the age of 8) who cannot differentiate between real and imaginary portrayals.
13 ans+	Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Viewing with an adult is therefore strongly recommended for children under 13.
16 ans+	Programming is not suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.
18 ans+	Programming restricted to adults - Contains constant violence or scenes of extreme violence.

Region 5

Use Region 5 to block various types of movies and television programs based on ratings systems used in the U.S. that you feel may be inappropriate due to its content. The Region 5 option will operate for Digital Channels (ATSC) only.

Ratings Procedure

1. Use the CURSOR PAD ◀ or ▶ to select the Rating Category (MPAA, TV Rating, etc.) that you want to block.
2. Press the SELECT button to block the Rating that you have selected.
3. Press the EXIT button to quit the menu.

Region 5 Alternate Ratings (Example Only)

G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only.
Y	Adults only.

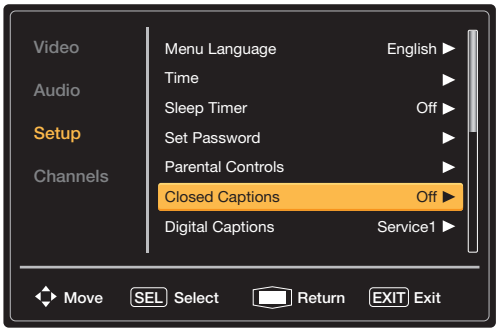
NOTES

- *In order to set the Region 5 Ratings the ATSC Digital channel received must include Region 5 Ratings data. To see if the channel has Region 5 Ratings, press the INFO button on the remote control.*
- *Once the TV has received Region 5 Ratings data, the Region 5 option in the Parental Controls menu will become available and display the data.*

Setup

Closed Captions

Closed Captions are the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen. Your local TV program guide denotes these programs as CC or .



1. Use the CURSOR PAD ►, ▲ and ▼ to highlight and select the function to change.
2. Press the EXIT button to quit menu or press the MENU button to return to the Main menu items.

Closed Captions:

ON/OFF will turn the display CC on or off.

With Mute will turn the display CC on when Mute is on.

Digital Captions

Set captions for digital programs and set available language.

Digital Caption Options

This function will help choose and set font, size, color and background style of digital captions.

NOTES

- *The Digital Closed Captions feature only works when using the "TV" input of this television.*
- *Caption Display will not work when viewing a 480i, 480p, 720p, 1080i or 1080p input via the COMPONENT: Y-PbPr or HDMI inputs.*
- *Analog and Digital Closed Captions availability and content depends on the broadcaster.*
- *Digital Captions and Digital Caption Options will not be available (grayed out) when using analog channels.*

Analog Captions:

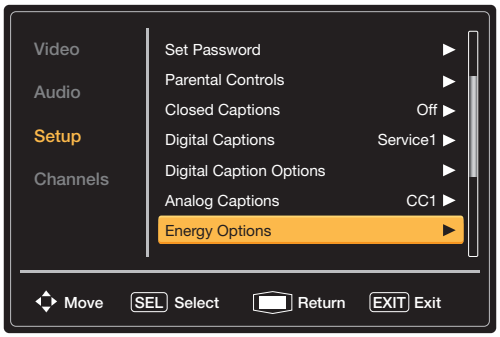
Set captions for analog programs. This function will help choose and set available mode and channel.

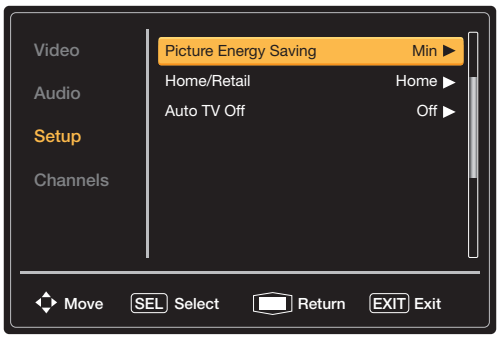
CC1,CC2, etc.: These are for the program you are viewing.

TEXT1, etc.: These are for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. Text may not be available with every CC program.

Energy Options

Use this feature to save energy when watching your Hitachi LCD TV.





1. Press the CURSOR PAD ▲ or ▼ to highlight Energy Options.
2. Press the CURSOR PAD ► to select your choice.

Picture Energy Saving

This function allows you to choose power consumption reduction based on 3 levels (Min, Medium, and Max).

Home/Retail

This function allows you to return to the Energy Savings Initial Setting screen (see page 13).

NOTE

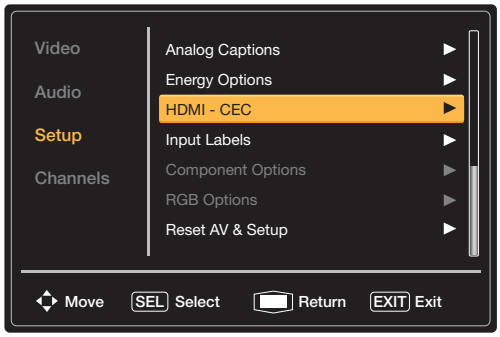
The Retail mode is intended for showroom or shop-use only, if you make any video or audio adjustment changes in this mode, they will not be saved when the TV is turned AC Off.

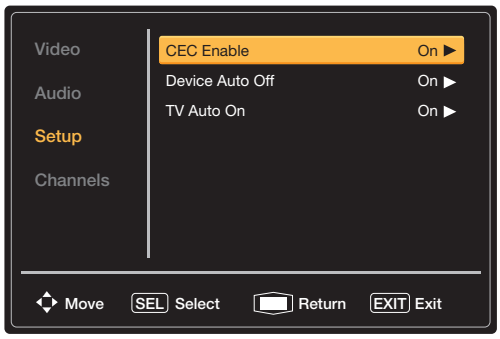
Auto TV Off

This function turns off the TV when no remote control signal is detected for 3 hours to save energy. Please choose On or Off to set this feature.

HDMI-CEC

Set to On and this feature will enable the HDMI-CEC signal bus to allow your Hitachi LCD TV to discover and communicate automatically with other compatible HDMI-interfaced Audio/Video device. The CEC signal bus makes global controls possible, based on “plug & play” automation, to minimize the number of IR remote controls and key-presses required for basic operation of your AV device. Select Off to disable this option.





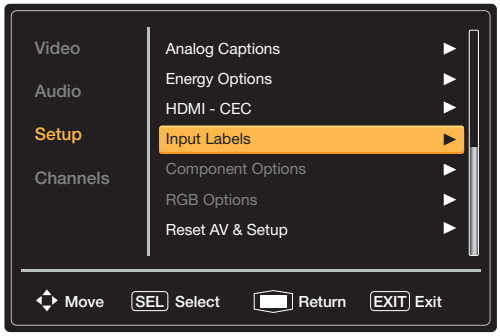
With the “HDMI-CEC” feature, you can interface the connected device through the HDMI jack automatically if the connected device meets the“HDMI CEC (Consumer Electronics Control)” industry standard. Please check if the connected device supports HDMI CEC before using this feature. For example, here are three common functions after setting item “CEC Enable” to “On”.

Feature	Description
One-Touch Play (TV Auto On)	Pushing the “Play” button on the CEC enabled device will command the device to play , turn the TV on, and the HDMI input, that the device is connected to, will become the active input source for the TV.
System Standby (Device Auto Off)	When the user turns off the TV, all active CEC enabled devices on the HDMI input will go to Standby.
Playback Control	The user can operate the CEC enabled device’s deck control functions (i.e. Play, Stop,Fast Forward and Rewind) by the TV’s remote control’s transport keys (ie. ▶, ■, ◀◀ and ▶▶).

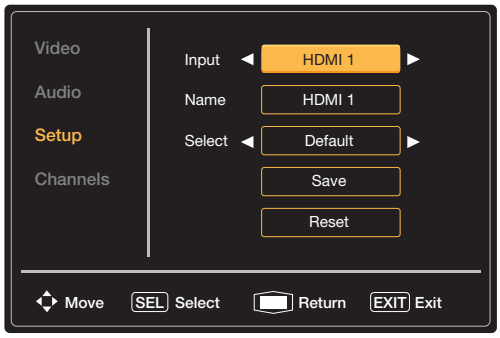
NOTE *Not all devices with an HDMI connection have the CEC feature. Consult the instruction manuals for the device you are trying to control to confirm whether or not CEC is available.*

Input Labels

Use this feature to give a name to any of the nine video inputs excluding the TV input.



1. Press the CURSOR PAD ▲ or ▼ to highlight Inputs Labels.
2. Press the CURSOR PAD ► to select your choices.

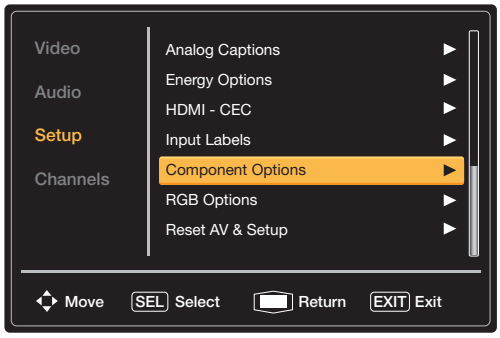


NOTE *The Input Labels is Grayed out (Skip) or disabled until you are on the INPUT that you like to change.*

When the Custom option is selected a keyboard will appear on the screen to place your desired label.

Component Options

This function allows you to adjust the phase between your TV and the device with component output.



1. Press the CURSOR PAD ▲ or ▼ to highlight Component Options.
2. Press the CURSOR PAD ► to select your choice.

There are two options for the Component inputs. Phase and Reset.

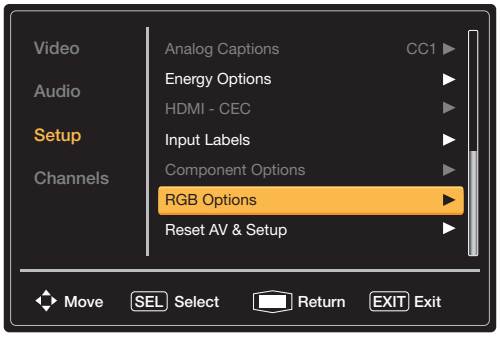
Phase: Use this feature to fine-tune the display to perfectly synchronize with the video signal source.

Reset: Return to the original condition for Component inputs.

Setup

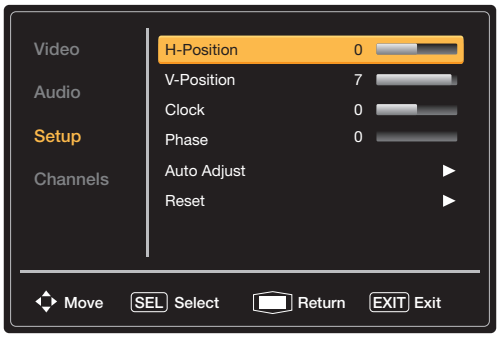
RGB Options

This function is to adjust the RGB input to match your PC or laptop output with your LCD Television.



1. Press the CURSOR PAD ▲ or ▼ to highlight RGB Options.
2. Press the CURSOR PAD ► to select your choices.

There are six options for the RGB input. H-Position, V-Position, Clock, Phase , Auto Adjust and Reset.



H-Position

Adjusts the display position horizontally.

V-Position

Adjusts the display position vertically.

Clock

Minimizes vertical stripes on the screen.

Phase

Minimizes the blurring of letters and stripes on horizontal row.

Auto Adjust

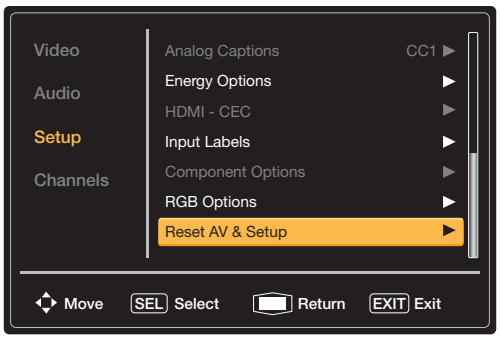
Adjusts Horizontal Position, Vertical Position, Clock, and Phase automatically.

Reset

Each item in RGB Options Menu will be restored to the factory setting by selecting Yes.

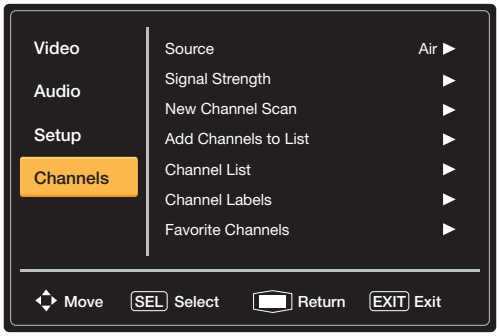
Reset AV & Setup

This feature restores all Audio, Video and Setup configuration that you have made on the TV and it will return to the factory settings.

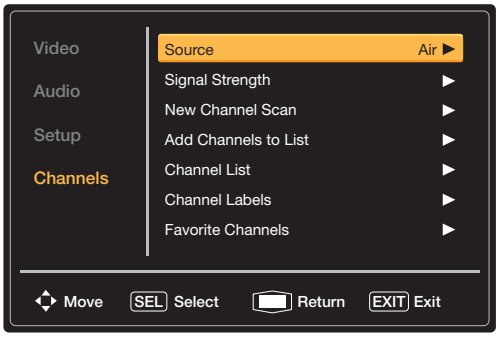


Channels

Select Channels to set your signal source options, run New Channel Scan, Check Signal Meter and Set Channel List (Add channels to List, Channel/Labels and Favorite Channels).



1. Press CURSOR PAD ▲ or ▼ to highlight functions.
2. Press the SELECT button or CURSOR PAD ▶ enter the next popped-up menu.
3. Press the CURSOR PAD ▲ or ▼ to select.



Source

Select the signal Source for the TV. When using an indoor or outdoor antenna select Air. When using a cable system select Cable.

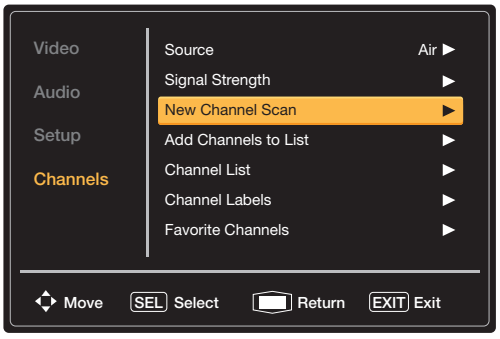
Signal Strength

Select Signal Strength when using an indoor or outdoor antenna. This feature will show the signal strength of the Antenna signal to help you adjust your antenna to optimize signal reception. Use the MENU button or EXIT button to return.

NOTE *The Signal Strength meter will not be available (grayed out) when watching analog channels.*

New Channel Scan

This feature will automatically store active Analog and Digital channels to the Channel list. This scan will erase all channels previously stored in the list.

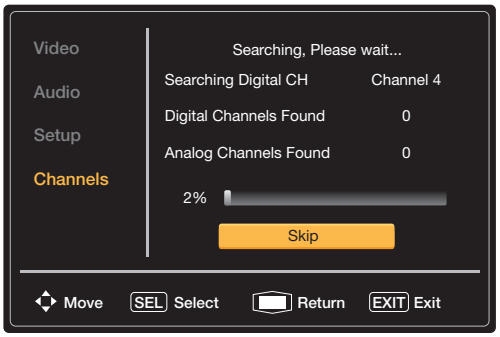


1. Use the CURSOR PAD ▲ or ▼ to highlight then press SELECT button to start scanning.

NOTE *If you do not want to erase all scanned channels, please use the Add Channels to List option instead.*

Add Channels to List

This function allows you to add channels to the channel memory. Sometimes adjusting the antenna direction will allow reception of additional channels.

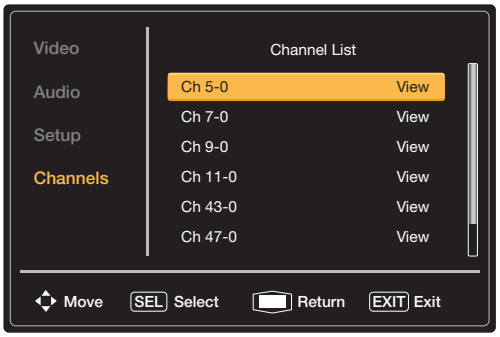


1. Use the CURSOR PAD to select the Add Channels to List.
2. Press the SELECT button to start scanning.
3. Press the EXIT button to return to normal viewing.

NOTE *Only the Channels that have been added to the list will be stored.*

Channel List

This function allows you to review which channels have been added to the Channel List.



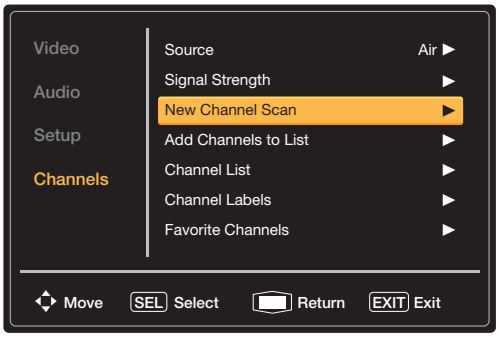
1. Use the CURSOR PAD to navigate the Channel List.
2. Press the SELECT button or the CURSOR PAD ▶ to select Skip or View.
3. Press the EXIT button to return to normal viewing.

NOTE *The Channel List cannot be updated by only changing the signal. Auto Channel Scan must be performed for the Channel List to be updated.*

Channels/Multimedia

Channel Labels

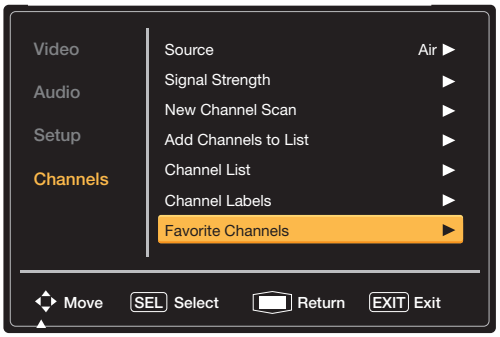
Use this feature to give a name to any of the channels.



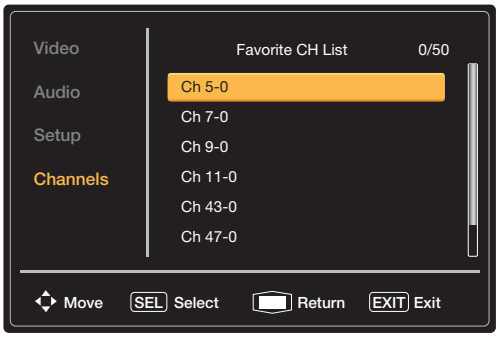
1. Press the CURSOR PAD ◄ or ► to highlight the channels.
2. Press the CURSOR PAD ▼ to change the channel label.
3. Press the SELECT button to show the keyboard for editing the channels.

Favorite Channels

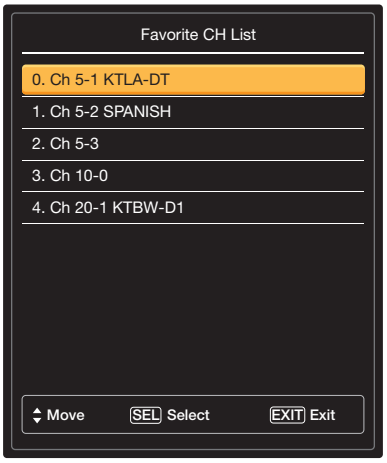
This function allows you to manage your Favorite Channels.



1. Use the CURSOR PAD to navigate the Favorite Channels.



2. Press the SELECT button or CURSOR PAD ► to check mark the channel and make it a Favorite channel. Select all desired channels.
3. Press the EXIT button to return to normal viewing.
4. To view all the Favorite channels that you have choosen, press the FAV CH button on the remote control.



Equipment Care and Troubleshooting

DO

Dust the screen and cabinet with a soft cloth.

Clean the screen with a soft cloth moistened in warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty.

Place your LCD Television away from extreme heat, humidity and extremely dusty places.

Remove the plug from the wall outlet if your LCD Television will not be used for a long period of time, for instance, when you go on vacation.

DO NOT

Do not clean your screen with strong cleaners, polishes or a chemically treated cloth.

Do not place rubber or vinyl products or tape on your LCD Television.

Avoid repeatedly touching the screen.

Do not drop or hit the remote control. This may cause internal damage.

Avoid placing the remote control in a high humidity place or getting it wet. Do not leave it on or near a heater. Excessive heat or moisture may cause the unit to fail.

When the batteries run down, remote control operation will become erratic or become unresponsive. Replace the old batteries with two new "AA" size batteries. Do not use an old battery with a new battery.

Exposing the screen to direct sunlight for a long period of time or heat may cause damage to the LCD screen.

Do not spray any cleaners directly onto screen.

Troubles are sometimes caused by simple "faults" that you can correct without the help of a service technician. If you experience any difficulty with your TV, check a few basic remedies before calling your service technician.

TV will not turn ON

1. Press the POWER button (ON/OFF button) once.
2. If there is still no power, wait 30 seconds and press the POWER button again.
3. If there is still no power, unplug the power cord from the wall. Wait 30 seconds and plug the power cord back in. Press the POWER button again.

When the Following Messages Appear on the Screen

Message	Condition / Action	
No Signal	The unit cannot detect any signals from any input jacks or the TV channel does not show picture. • Check if the cable is connected correctly and firmly. • Check if the power of any external device is ON. • Check if the input selection matches the connection jack. • This message will be displayed for 15 minutes then the TV will turn Off.	

Troubleshooting

Symptom and Checklist

SYMPTOM	CHECKLIST	PAGES
No picture - no sound	• Check the Indicating lamp status (Off, Red, Blue). • Check the connection of the power cord and/or other cables. • Check if the power of the unit or external device is ON. • Check if the correct Video input is selected. • Check if the unit is in “Standby mode” . • Adjust the values in “Video menu” and “Audio menu”.	9, 12, 14~17 24~26
Multiple images-normal sound	• Check the connections to external device.	14~17
Intermittent interference	• Check if the source of interference is shielded correctly. • Move these kinds of electrical devices away from the unit.	37
Normal picture, but no sound	• Check the volume level. • Check if the MUTE button has been pressed or not. • Check the connections to external device. • Try next/other Audio Language.	14~18 26
No picture - normal sound	• Check the value level of “Brightness” and “Contrast” in “Video Menu”.	24
The remote control does not work.	• Check if the batteries are installed correctly. • The batteries might be exhausted. Replace them with new ones. • Remove all obstructions from in front of the sensor window on the unit. • Check if the buttons on the control panel are working.	6, 9
The buttons on both the remote control and control panel do not work.	• Unplug and connect the power cord again.	7, 35
Normal picture but no color-normal sound	• Check the connections to external device.	14~17
No picture The Indicating lamp → Off	• Check if the power cord is plugged into the socket securely.	7, 9
No picture The indicating lamp → Blue	• Check if the signal cable is connected correctly and securely. • Adjust the level of Brightness and Contrast lower.	12, 14~17, 24
Some screen display aspects cannot be switched in.	• Check the signal status by pressing the INFO button on the remote control. The available screen display aspect is different depending on the current signal status.	11, 21 48
No power	• Check the power cord is connected to the AC oulet.	9, 12
Turns Off by itself	• Check or ensure Sleep Timer settings are not activated.	11, 18, 27
Turns On by itself	• Check if the HDMI-CEC feature is activated.	31
Picture may “block” or freeze when watching a digital channel.	• Check signal strength under ”Signal Strength”.	33

HDMI Issues

SYMPTOM	CHECKLIST	PAGES
No picture - no sound	• Make sure you have selected the correct HDMI input. Toggle through them while HDMI device is ON or during playback. • Unplug and re-plug HDMI connection while TV and HDMI device device are powered on. • Turn TV and HDMI device off. Turn TV on first and then HDMI device second.	14, 15, 17, 19
Error notice comes to screen	• Try pressing “exit” on HDMI device remote control and then on TV remote to find source of the error OSD. If error persist or comes back even after pressing exit, try alternate HDMI input on TV. • Unplug and re-plug HDMI connection while TV and HDMI device are powered on. • Turn TV and HDMI device off. Turn TV on first and then HDMI device second.	9, 11 14, 17
Normal picture, but no sound	• Check HDMI Audio settings under the HDMI device menu (of the HDMI source device). In order to get sound on TV, HDMI output must be set to PCM option.	
No sound from TV Optical Out when using HDMI devices	• Change Digital Output selection. • As an option, use audio optical output from HDMI source device directly to separate Audio Amplifier.	17 26
Picture flickers during channel change w/ using HDMI set top boxes	• This is normal operation from the source switching delay itself. It’s not an indicator of a TV malfunction.	
Picture is blurry or fuzzy	• If HDMI source is HD capable, ensure it’s output is set to 1080p, 1080i or 720p under HDMI device menu (of the HDMI source device).	
Pixelization noise or loss connection (“No Signal” message display)	• Check HDMI input picture format, if use 1080p format confirm cable length it is recommended that the length of the cable should be less than 5 meters, or change HDMI input picture format to 1080i.	

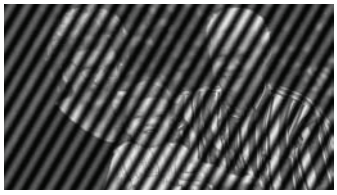
If the problem cannot be solved with the suggested procedures, contact 800.HITACHI. For your safety, never try to repair the product yourself.

Reception Problems

IGNITION NOISE:
Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.

GHOSTS:
Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve reception. Ghosting may also be caused by defects in the antenna system such as unshielded leads or connecting several sets to the same antenna without using multiple antenna couplers.

SNOW:
If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



RADIO FREQUENCY INTERFERENCE:
The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

PREVENTION OF AN OBSTACLE TO RADIO RECEIVERS
This television has been designed pursuant to the FCC class B Rules. This is to prevent a problem to Radio receivers. If this television causes a problem to Radio receivers, then take the following steps:

- Keep the television away from Radio.
- Adjust Radio antennas in order for the television not to receive interference.
- The antenna cable of Radio should be kept away from the television.
- Use a coaxial cable for antenna.

You can check if this television influences Radio receivers by turning off all other device other than the television. If you find a problem receiving Radio when using the television, check the instructions mentioned above.

BLOCK NOISE or FREEZE (DIGITAL INPUT):
Fuzzy blocks may appear in some area or the whole area of the screen. This is usually caused by interference from automobile ignition systems, neon lamps, electrical drills, ghosting of the image and lost or weak receiving signals.

BLACK SCREEN:
When using an antenna, weak signals will display a black screen. It may be necessary to upgrade your antenna.

NOTE *The TV set can generate sound distortion in external devices such as a radio. Please separate radio device from the TV set to a considerable distance.*

Features and Specifications

Features:
- ***New*** High Gloss Black Frame
- (4) HDMI® (V.1.3 with CEC)
  1080p60, 1080p24 Input Compatible
- ***New*** Multi-Function Remote Control
- Dynamic/Standard/Movie/Custom/Game
- Picture Memories
- 3 Preset Color Temperatures
- Game Mode

Video:
- 1366 x 768p Display Resolution
- Wide Viewing Angle
- Color Temperature Presets: High, Medium, and Standard
- Multiple Screen Fill Modes: (Auto/4:3/16:9/Zoom1/Zoom2/Full)[1]
- 4MB 10-bit 3D Y/C Comb Filter
- Picture Modes: Dynamic/Standard/Movie/Custom/Game

Audio:
- CONEQ™ Sound Quality
- MTS Stereo/SAP
- 4 Sound Modes (Custom, Standard, Movie, News)
- Rated Output Power: 10W+10W

Inputs:
- Power Input . . . . . AC 120V, 60Hz
- Power Consumption
  Maximum Power L32A404 . . . . 135 W, 1.25 A
- Antenna Input Impedance . . . . . .75 Ohm
- Channel Coverage . . . . . 191ch.
  - VHF-Band . . . . . 2~13
  - UHF-Band . . . . . 14~69
  - CATV Mid Band. . . . . A5~A1, A~I
  - Super Band . . . . . J-W
  - Hyper Band . . . . . W+1 - W+28
  - Ultra Band . . . . . W+29 - W+94
- Television System . . . . . NTSC Standard
  . . . . . ATSC Standard (8 VSB, 64-QAM, 256-QAM)
- Video . . . . . 1.0Vp-p, 75 Ohm
- S-Video
  - Luminance(Y) . . . . . 1.0Vp-p, 75 Ohm
  - Chrominance(C) . . . . . 0.286Vp-p, 75 Ohm
- Component Video
  - Luminance(Y) . . . . . 1.0Vp-p, 75 Ohm
  - Chrominance(P_b/P_r) . . . . . 0.7Vp-p, 75 Ohm
- Audio Input Impedance . . . .>10k Ohm
- Audio Input Sensitivity. 300mVrms
- HDMI . . . . . (19 PIN)

Supplied Accessories:
- Remote Control
- Batteries (AA)
- Power Cord
- Owners Guide
- Easy Graphic Guide
- Stand Base
- Stand Screws

Inputs/Outputs:
- Wideband Component Y, P_b,P_r. 2
- Composite Video 2
- S-Video 1
- Antenna (RF)Input. 1
- Audio Output. 1
- Optical Output 1
- HDMI 4
- Upgrade USB Slot 1
- RGB Input 1
- RGB Audio Input. 1
- Phono Jack for Headphone 1

Specifications:
- FCC class . . . . . B for Consumer Use
- Power Requirements 108-132VAC, 60Hz

[1] Screen mode availability varies by input format.

VGA and XGA are trademarks of International Business Machines Corporation.

VESA is a registered trademark of the Video Electronics Standard Association.

HDTV Televisions display HDTV only when an HDTV source is available.

All specifications, weights, and dimensions are subject to change without prior notice. Please access www.hitachi.us/tv for detailed specifications and dimensions for custom installations.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

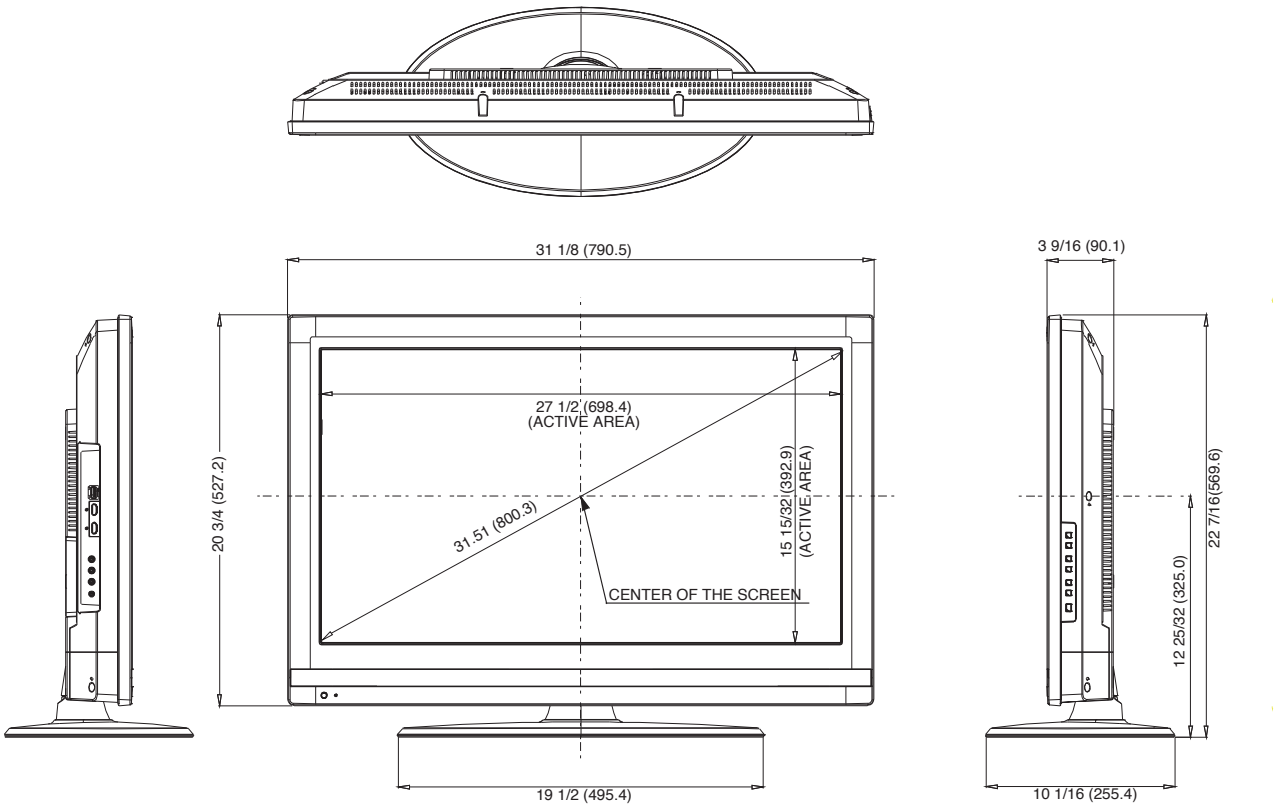
Manufactured under license from Real Sound Lab, SIA.
CONEQ is a trademark of Real Sound Lab, SIA.
CONEQ™ delivers clear, rich sound using proprietary professional equalizing technology. Dialog is clear and music sounds more dynamic when the speakers are perfectly optimized.

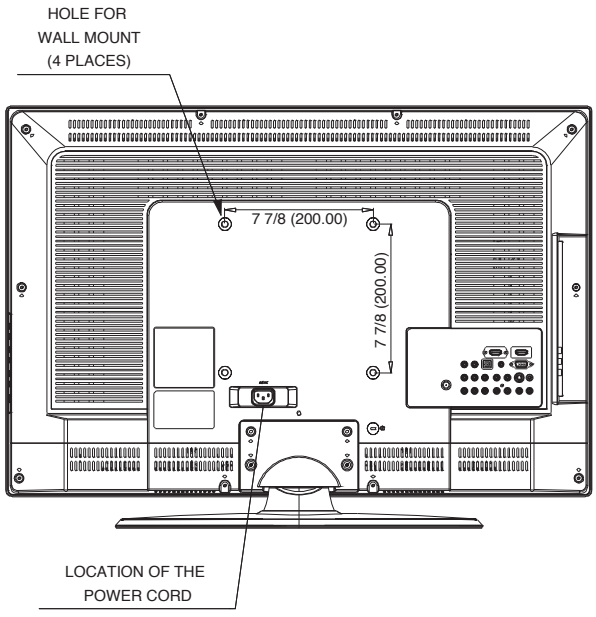
CONEQ HA Mode™ (Hearing Aid) technology produces natural sound for the hearing impaired. The listener can enjoy details in music and clear dialog often without the help of a hearing aid.

Set Dimensions

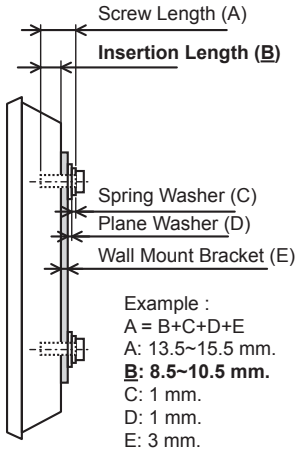
L32A404 model (Includes Table Top Stand) Weight (lbs./kg): 26.4/12

Units : Inches (mm)





Rear View
Use as Reference for Wall Mount Bracket



Example :
A = B+C+D+E
A: 13.5~15.5 mm.
B: 8.5~10.5 mm.
C: 1 mm.
D: 1 mm.
E: 3 mm.

• The screw type : Thread ISO M6 (Metric type, do not use Standard type).

Side View
Wall Mount Screw specification

Service Information

800.HITACHI
(800.448.2244)

Monday ~ Friday
8:00 am - 7:00 pm CST

www.hitachi.us/tv

World Class Service

Sincere - Prompt - Efficient

HITACHI
Inspire the Next

HITACHI AMERICA, LTD.

HITACHI has made every effort to assure you hours of trouble free operation from your Hitachi product. Should you require service assistance with **OPERATIONAL, HOOK UP, TECHNICAL ASSISTANCE OR WARRANTY SERVICE SUPPORT, please contact one of our knowledgeable Customer Service Representatives at 800.HITACHI (800.448.2244).**

Our Customer Service Representatives will provide you with the assistance you need and if necessary coordinate the repair process with a local Authorized Service Facility in your area. Please be prepared to submit proof of purchase and/or delivery receipts to your 800.HITACHI Customer Service Representative. Warranty coverage will be provided in accordance with the provisions of your Limited Warranty (see the Limited Warranty page in this owners guide).

Pour de plus amples renseignements sur le service durant la période couverte par la garantie, sur le fonctionnement ou pour de l'assistance technique communiquez avec:

Au Canada: 800.HITACHI (800.448.2244)
Lundi~ Vendredi 8:00 am – 7:00 pm HNC

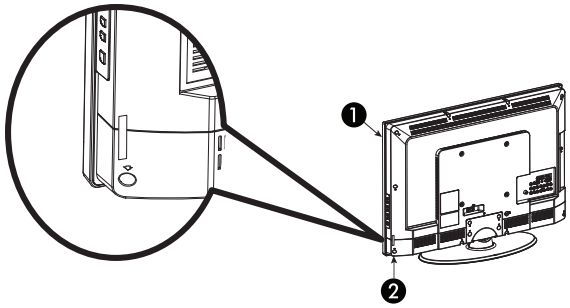
Hitachi America, Ltd., Digital Media Division
Customer Service Support
PO Box 3900
Peoria, IL 61612
U.S.A.: customerservice.ce@hal.hitachi.com
Canada: customerservice.canada@hal.hitachi.com

Customer Record
The MODEL NAME and SERIAL NUMBER of this product is located on the backcover and also on the RIGHT SIDE of the set. Please follow the next steps to find this information and then record it in the space provided below for use in case you call 800.HITACHI, they will require this information in order to give you the proper support.

❶ Look on the right side of the set.

❷ Locate the label where it shows the information related to MODEL NAME and SERIAL #.

❸ 800.HITACHI will require this information in order to give you the proper support regarding your questions.



Model Name_____ Serial Number _____

Limited Warranty

Congratulations on your purchase of a new Hitachi display product.

LIMITED WARRANTY
Hitachi America, Ltd. warrants this product in accordance with the terms and conditions applicable to the products identified below:

Conditions of Hitachi Limited Warranty
This Hitachi display product (the "Product") is warranted to be free from defects in materials and workmanship beginning on the date of purchase by the original owner and continuing for the duration of the applicable time periods specified below. If the Product is found to be defective, Hitachi will repair or replace (at Hitachi's option) defective parts at no charge, subject to the conditions of this Limited Warranty. If the original owner rejects, refuses or otherwise does not accept Hitachi's offer to repair or replace such defective parts under this Limited Warranty, this Limited Warranty shall be void and of no further force or effect. This Limited Warranty extends to the original owner only and is not transferable, and such owner must provide a dated sales receipt for the Product to qualify for parts or service under this Limited Warranty. The original owner must notify Hitachi of a defect claim **by calling 800.HITACHI** during the applicable Limited Warranty period for this Limited Warranty to be effective. This Limited Warranty is valid only in the U.S.A. and Puerto Rico.

Hitachi Product :
LCD Flat Panel Televisions

PARTS: The Limited Warranty period for parts is 1 year from the date of original purchase. During the Limited Warranty period for parts, Hitachi will replace defective parts with new or rebuilt parts (at Hitachi's option) at no charge for such parts. Any replacement part will be warranted for the remainder of the original warranty period applicable to the part replaced.
LABOR: The Limited Warranty period for labor is 1 year from the date of original purchase. During the Limited Warranty period for labor, Hitachi will repair or replace (at Hitachi's option) defective parts without charge for labor.
SERVICE LOCATION: In-home warranty service, which includes either in-home repair or free pick-up and delivery (at Hitachi's option), applies to all Hitachi products except: (i) 32-inch and smaller LCD Flat Panel Televisions; (ii) Products located outside the U.S.A. or Puerto Rico; (iii) Products located more than seventy-five (75) driving miles from Hitachi's nearest Authorized Service Facility. If the foregoing clauses (i), (ii), (iii)apply, then the Product owner will be responsible for bringing/delivering the Product to a Hitachi Authorized Service Facility and, following warranty service, retrieving the Product from such Authorized Service Facility.

CERTIFIED SERVICE CENTER

Hitachi is a proud supporter of the Certified Service Center program. Businesses who display the CSC certification mark have demonstrated that they operate in accordance with the high standards of professionalism prescribed by the Consortium for Certified Service Centers.

800.HITACHI (800.448.2244)
Please call 800.HITACHI (800.448.2244) for operational, hook up or warranty service support.

Visit our website at www.hitachi.us/tv :
Hitachi's website features a wealth of information on Hitachi products and technologies, as well as downloadable owners guides and other useful information.

IMPORTANT:
Before using or installing your Product, please complete this form and attach your sales receipt and retain them for your records. This will help facilitate proper warranty coverage.

MODEL NO.	SERIAL NO.
DEALER NAME	DATE OF PURCHASE
DEALER ADDRESS	
CITY	STATE

VALID ONLY IN U.S.A. AND PUERTO RICO

Warranty Limitations
This Hitachi Limited Warranty does not cover:

A. Any Product that has been modified or repaired in a manner not previously authorized by Hitachi in writing.
B. Any Product whose serial number has been removed, altered, replaced, defaced or rendered illegible.
C. Any defect, malfunction, or failure caused by or resulting from improper or unauthorized service, maintenance or repair.
D. Damage resulting from abuse, misuse, mishandling, neglect or damage caused by exposure to hostile operating environments such as areas containing dust and/or smoke.
E. Damage caused by power surges, accidents, natural disasters or any other events or circumstances outside Hitachi's control.
F. Any Product used in any manner inconsistent with the acceptable set-up, usage, safety or installation configurations identified in the Product's Owners Guide.
G. Any Product used for purposes or applications, or subjected to operating conditions, other than those identified as acceptable in the Product's Owners Guide.
H. Product repairs (including any product whose case has been opened), or part replacements provided or installed, by any person other than an Authorized Hitachi Service Facility Representative.
I. Improper uncrating, set-up or installation or any misadjustments caused by user-operated controls.
J. Any labor or costs associated with removing the Product from a custom cabinet or other specialized product installation that impedes direct and immediate removal of the Product from the owner's premises (must be arranged and paid by the owner).
K. Product cabinets, cabinet parts, knobs, batteries or accessories.
L. Product screens that have been cleaned by any method other than as specified in the Product's Owners Guide.
M. Normal usage, degraded brightness caused by backlight aging and/or cell defects or ordinary wear and tear, including, without limitation, scratches or marks on the Product's screen, cabinet or the appearance of bright or dark screen pixels.
N. Any Product returned for service that is damaged due to improper packaging, mishandling or shipping. (IMPORTANT: When shipping any Product to a Hitachi Authorized Service Facility, Product owner must package it securely in the original shipping container or its equivalent to prevent damage. The Product must be returned with the shipping charges prepaid and proof of purchases included in the shipping container. Failure to properly package such product during such shipment will void all warranties.)
O. Any Product purchased or serviced outside the United States of America and Puerto Rico.
P. Any Product that has been used for commercial purposes.

NO PERSON, AGENT, DISTRIBUTOR, DEALER, SERVICE FACILITY, OR COMPANY IS AUTHORIZED TO CHANGE, MODIFY OR AMEND THE TERMS OF THIS LIMITED WARRANTY IN ANY MANNER WHATSOEVER. EXCEPT AS PROVIDED IN THIS LIMITED WARRANTY, HITACHI MAKES NO EXPRESS WARRANTY REGARDING THIS HITACHI PRODUCT. FURTHER, ALL IMPLIED WARRANTIES RELATING TO ANY PORTION OF THIS PRODUCT, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION SPECIFIED UNDER THIS LIMITED WARRANTY. HITACHI SHALL NOT BE LIABLE TO THE PURCHASER OR TO ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSS OF PROFIT OR PRODUCT RESULTING FROM ANY DEFECT IN, OR MALFUNCTION OR FAILURE OF, THIS HITACHI PRODUCT. BECAUSE SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY CONFERS SPECIFIC LEGAL RIGHTS, INCLUDING CERTAIN OTHER RIGHTS THAT MAY VARY DEPENDING ON YOUR JURISDICTION.

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Appendixes

Appendix A: Picture Format for Each Input Source

Aspect Specifications

Yes: Available / --: Not Available

Input Signal			Aspect					
			Auto	4:3	16:9	Full	Zoom1	Zoom2
AIR / CABLE	Air / Cable		Yes	Yes	Yes	--	Yes	Yes
HDMI 1	HDMI / DVI	1080p, 1080i, 720p, 480p, 480i	Yes	Yes	Yes	Yes	Yes	Yes
		640x480, 800x600, 1024x768, 1280x720, 1360x768	Yes	--	--	Yes	--	--
HDMI 2	HDMI	1080p, 1080i, 720p, 480p, 480i	Yes	Yes	Yes	Yes	Yes	Yes
HDMI 3	HDMI	1080p, 1080i, 720p, 480p, 480i	Yes	Yes	Yes	Yes	Yes	Yes
HDMI 4	HDMI	1080p, 1080i, 720p, 480p, 480i	Yes	Yes	Yes	Yes	Yes	Yes
COMPONENT 1	YPbPr		Yes	Yes	Yes	--	Yes	Yes
COMPONENT 2	YPbPr		Yes	Yes	Yes	--	Yes	Yes
AV 1	Video / S-Video		--	Yes	Yes	--	Yes	Yes
AV 2	Video		--	Yes	Yes	--	Yes	Yes
RGB	Analog RGB		Yes	--	--	Yes	--	--

Appendix B: RGB Format

Resolution	Frequency(Hz)
640x480	60, 72, 75
720x400	70
800x600	56, 60, 72, 75
1024x768	60, 70, 75
1280x720	60
1280x768	60
1360x768	60

NOTE The type of video board or connecting cable may not allow for correct displays adjustment of H-Position, V-Position, Clock and Phase.

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